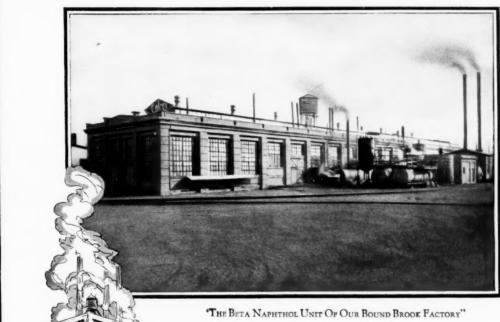
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A Monthly Economic Review of Chemistry and Industry

Vol. XXI No. 25

Published Every Thursday by Drug & Chemical Markets, Inc. DECEMBER 22, 1927



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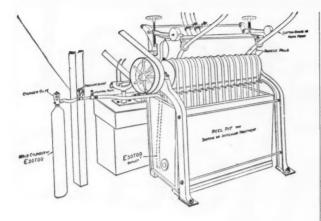
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EDITORIALS

DECEMBER 22, 1927

No. 25

Table of Contents

Dr. Doran's Dilemma	879
Frozen Development	880
Next Year's Outlook	880
TEN YEARS AGO	000
FEATURE ARTICLES	001
The Chemical Industry in 1928	881 883
Outstanding 1927 Events in the Chemical Industry What the Industry Thinks of Frozen Development	885
Caustic Poison Act Regulations	887
WHO'S WHO	882
NEWS AND MARKET SECTION	
THE INDUSTRIES FINANCES	894
Financial Reports	894
Foreign Exchange	894
Stocks and Bonds	895
MARKET REPORTS	
Accelerators	904
Albumens	904
Chemicals	002
Agricultural Industrial	902 896
Clays and Fillers	904
Crudes and Intermediates	898
Colors and Pigments	904
Dye and Tan Woods	904
Dyewood Extracts	904
Fertilizer Materials	902 904
Gums Insecticides and Fungicides	904
Metals	904
Naval Stores	904
Oils and Fats	900
Solvents and Plasticizers	896
Starches, Dextrins and Sizes	904
CATALOGS AND BULLETINS	
EDITOR'S CORRESPONDENCE	
FOREIGN TRADE OPPORTUNITIES	
NEW INCORPORATIONS	
IMPORTS MANIFESTS	916
EXPORTS	918
PATENTS, U. S. AND FOREIGN	920
BUYER'S GUIDE	944
INDEX TO ADVERTISERS	945

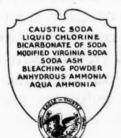
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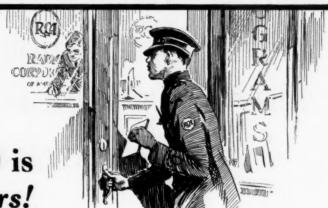
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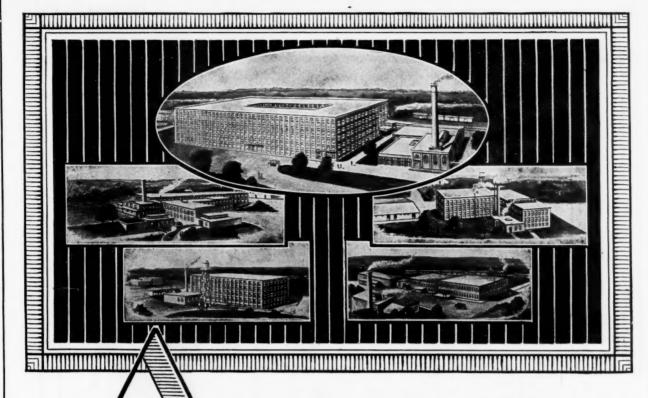
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ALCOHOL THROUGH THE AGES - NUMBER VI



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Marco Polo was probably the first European to visit Thibet. He found the Thibetans with no wines—only Chong, a fusion of fermented wheat, rice and barley. The traveler of Thibet always carried a buffalo horn full of Chong, and although it made his burden greater it is said to have made his journey more pleasant. The Still used in Thibet, as illustrated above, is unlike that of any European country, being apparently an Oriental creation throughout. In Thibet, as in many other countries, the benefits of distillation seem not to have been applied to Industrial uses.

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CHEMICAL MARKETS

Vol. XXI

DECEMBER 22, 1927

No. 25

Dr. Doran's Dilemma.

O ONE, within chemical circles at least, has ever had occasion to doubt the sincerity and honesty of the man in whose hands rests the administration of the industrial alcohol prohibition regulations. Since he has been put in charge he has given full testimony, by actions which speak much louder than any words, of that quality of courage which is all too rare in administrative circles. It was, in the first place, a courageous thing to leave his Bureau position to take up his present work, and those who know him best know how heavily the arguments of service both to administration of prohibition and to conservation of legitimate industrial interests must have weighed with him. His plan of limiting the production of alcohol was in itself a bold stroke.

ONE as familiar with prohibition administration as Dr. Doran is must have balanced carefully the chances which this plan has of success. He must know full well the insistent demand that there is for beverage alcohol in this country, and he is in a good position to realize that curtailment of denatured alcohol, if needed to supply that demand, would not of necessity cut it off at the source.

SINCE he distributed to the alcohol manufacturers his allotment figures for their next year's production, we understand that practically all of the pro-

ducers have, directly or indirectly, more or less vigorously, protested against their quota. Presumably each has wanted an increase in his own allotment.

DR. DORAN had many conflicting interests to reconcile in establishing these quotas. As but one specific example, would a plant whose production had not been during the past year up to the maximum either because of lack in selling effort because of curtailment as a deliberate matter of policy, be based upon average production or the number of years or on their actual output? What percentage of his production possibilities should be granted to a new producer or to an old producer who has increased his plant capacity? However difficult this task has been no one has questioned the disinterestedness of the quotas arrived at and it is a curious commentary on the attitude of the manufacturers when they almost unanimously filed protests against what most of the big industries of this country would welcome with open

WE ARE not sure that Dr. Doran's curtailment plans will achieve the results which the Prohibition Administrator expects; but we do believe that, since he has served the alcohol producers and consumers honestly, that he ought to have the very whole-hearted support of every branch of the chemical industry.

NEXT YEAR'S OUTLOOK

Despite that bugbear of industry—"Presidential year" which makes its appearance every four years to east its spell over business in general and likewise in spite of the much overrated threat of the European Cartel many executives of our industry do not hesitate to predict a continuance of prosperous conditions throughout the coming year.

The chemical industry has come to be looked upon as a very hazardous one of which to make predictions and the reputation is justly deserved. Happily, this state of uncertainty is caused by the sweeping changes wrought by research and not by a lessening of the scope of demand. Research has left its mark on the year now drawing to a close and will most certainly play an equally prominent part in the fortunes of business in the year to come.

A general feeling of optimism cannot be condoned in an industry which in the short span of a decade has risen from a position of comparative obscurity to that of major importance. Those outside of the industry, particuarly financial interests, are today as conversant with chemical manufacturing affairs as they are with those of other important groups. The movement of chemical stocks, the space given these activities by financial journals, and the evident desire of outsiders to more thoroughly acquaint themselves with the industry, are all tributes to the niche of importance now occupied by chemistry in the daily workings of the country.

With this back ground supporting the more tangible results of the present contract season, one fully up to the manufacturers expectations, the problem of the industry seems one of capitalizing on what it has earned without overstepping the bounds of sound business judgment.

FROZEN DEVELOPMENT

In every chemical establishment where constructive research is carried on continuously the executives must sooner or later decide whether improvements in process or in product shall be put into the plant or held in the safe. Almost always the problem presents itself in concrete, highly practical form. The present operation is satisfactory -it works, it meets competition. To change requires more or less investment of time and capital. And when this question arises it so bristles with facts and figures, with personal opinion and company expediency, that seldom is it considered from the saner, broader foundation of general policy. Yet in the abstract this problem must sooner or later become a plank in the company's platform bridging the foundations of research and finance, production and sales. The answer habitually given by any organization will determine much of its technical and its commercial characteristics.

Is it wiser to scrap plant, before obsolescence, in order to anticipate competition; or is it sounder practice to hold improvements in reserve but to work present processes till forced by manufacturing conditions or competitive sales to produce more efficiently?

In view of the conflicting reports on the progress of the Cartel formation which have been emanating from agents of the Department of Commerce in various European cities, the Department has issued a statement to the effect that in its opinion the ultimate consummation of the Cartel seems assured and that the industry as a whole welcomes any possible news collected by its agents.

The Department is to be commended on the dispatch with which it has released news on the subject and while these reports may seem confusing at the time, they are a tribute to the alertness of our foreign agents and nothing would be gained by a curtailment of this news.

[Ten Years Ago]

(From Drug & Chemical Markets, Dec. 19, 1917.)

Work has begun at Kingsport, Tenn., on the new potash recovery plant of the Clinchfield Portland Cement Corp. This plant will employ the Cottrell or electrical precipitation system.

The Tariff Commission is undertaking an inquiry into the significant developments that have taken place in the chemical industries since the passage of the tariff act of 1913.

Dr. Raymond F. Baker, director, Mellon Institute, University of Pittsburgh, will be commissioned lieutenant-colonel in the Ordinance Dept., U. S. A., and will be directed to take charge of the chemical work for our armies in France.

War Industries Board and fifteen wood alcohol refiners have reached an agreement by which the total output of wood alcohol of the United States will be purchased by the government.

E. I. du Pont de Nemours & Co.'s salicylic acid plant at Newark, Del., was destroyed by an explosion and fire last week with damage of \$100,000.

New Jersey Zinc Co. has taken a lease on a new office building to be constructed at 143 to 149 Maiden Lane, New York.

General Chemical Co., New York, has contracted for the constructed of a new one-story laboratory addition, at its works at Laurel Hill, L. I., to cost about 8,000.

Stockholders of Solvay Process Co. have ratified the plan to increase capital stock from \$18,000,000 to \$36,000,000.

The Chemical Industry in 1928

Any Forecast Is At Best Founded On Belief and Current Conditions, But There Are Several Predictions Advanced In This Article Indicating Further Expansion In the Chemical Industry During the Coming Year.

THERE seems to be a feeling of general optimism as to what the New Year will bring to the chemical industry. Within the past few weeks Chemical industry has received expressions of opinion from leaders in many branches of the industry including the alcohol, heavy chemical, solvents, wood and fine chemical divisions and while some urge conservatism all anticipate a healthy condition throughout the year.

C. Leith Speiden of Innis Speiden Company shares to some extent in their opinion and states his thoughts on the subject thusly:

"This year has been a healthy one for the heavy chemical business, which in itself is a fair barometer of general business conditions throughout the country for the reason that heavy chemicals are used to a very large degree in most of the industries which supply our citizens with their every day requirements. Specific industries for example are: paint, leather, silk, rayon, laundries, toilet preparation, mk, rubber, artificial leather, textiles, automobile, medical supplies, paper, railroads, etc.

"When the fundamental conditions of American industries are good it is directly reflected in the heavy chemical business. There is no question, so far as quantities available are concerned, that, in the main, the American producers of heavy chemicals are able, and are at present equipped to supply the great bulk of heavy chemicals required by the American consuming public. In fact there is at the present time an excess for export in many of these basic heavy chemicals. Tremendous strides have been made in the American heavy chemical business in the past 15 years. Demands have increased astonishingly and the industry has flourished under the impetus given to it by these demands."

"How would my position be affected by the elimination of the imposition of a lower import tariff on my product?" is a question each manufacturer should answer for himself."

"There will probably be ample room and justification for considerably greater investment in the chemical industry of this country as the country develops, but for the time being effort and capital should be devoted to research, and more efficient and cheaper methods of production and distribution. One of the great wastes with which the American chemical industry is confronted is the cost of distribution. Under this general heading can well be enumerated tremendously duplicated selling effort and expense incidental thereto, such as freight equalization, etc. Another great expense is duplication of research along the same lines by a number of different interests. This is desirable in that good competition is stimulating. On the other hand it is undesirable for the individual concern as well as the industry as a whole if unintelligently undertaken. By this I mean that if it were possible for some central control to direct or lend a guiding hand to chemical research, a broader field might be covered, without unnecessary expenditure of money in too much concentration by many on a few problems."

"These are only two examples indicating there is consid-

erable room and possibilities of savings within the industry. At the same time these savings can affect a national saving, which will help American business as a whole, both at home and abroad. Fundamental conditions for 1928 in American business seem to be sound, and the heavy chemical industry should and will, in my opinion, prosper in direct ratio to the Nation's forward progress.

Lacquer solvents have again been much in the public eye during the year and Arthur Orr, sales manager of Commercial Solvents Corporation has this to say on the subject:

"Organic solvents, other than petroleum distillates, find their principal outlet through the nitrocellulose lacquer industry and hence any prediction as to the consumption of such solvents must consider the potentialities of the lacquer market.

With general business indications for the early months of 1928 pointing to a continuance of industrial prosperity and with the farmer now finding himself a sharer in the national well-being, lacquer consumption by automobile manufacturers should reach a new peak in 1928. In the general industrial fields, nitrocellulose coatings are making consistent progress and, aside from their proven advantages for a wide variety of uses, our newly aroused color-consciousness will aid in maintaining an increasing demand for the type of finish which modern lacquer is best able to supply.

The use of lacquer in the architectural field has not developed as rapidly as was expected largely because of the unwillingness of painting contractors to experiment with a new material requiring a new technique of application. However, during 1928 we may expect to find a wider recognition of the special advantages of lacquer on the part of progressive master painters and with the development of improved nitrocellulose coating systems and greater proficiency in their application, an increasing volume of lacquer should be used for architectural finishing."

Basing an opinion on the foregoing premises, it would appear that the first six months of 1928 will see a demand for lacquer solvents exceeding that of the last six months of 1927.

Coming as it does from an outstanding figure in the wood chemical industry this statement by Charles B. Hall of Cleveland-Cliffs Iron Company is significant:

"Replying to your inquiry as to my opinion regarding the prospects of the chemical business for next year, particularly that section that pertains to the wood industry. When one contributes an opinion, forecasting business conditions, it seems to me the expression must necessarily be more or less selfish; consequently, I would say I think business in 1928 will be good—at least, this would express my desire. However, with an expression of this kind, I must consider some facts in order to arrive at an intelligent opinion, which I hope will be a consistent prediction."

"What has gone over the dam should not be considered, except to recognize the fact that the dam is still in existence and the same kind of material is still going over—whether

for good or bad, that is something that every one must determine for himself.

"The wood industry during the past twenty-five years has been a very healthy one, notwithstanding a great many changes, resulting in a good average over this period. The industry today is arriving where I cannot accurately predict what it will be, but it is a fact that the experience and capital are now actively engaged in a process of rejuvenation, building up new walls on the well-established foundation, housing in, as it were, an old business in a new home, with new surroundings, creating a new house for a commodity the manufacturing world, as well as the Government, can never get along without. New requirements, like new forms, create new life, and all the new conditions at this particular time fit in at the very beginning of our new year. 1928 cannot possibly do anything but show a new growth with a positive improvement. Starting, as it were, at the bottom, there is everything to gain and nothing to lose.

My opinion is that more attention must be given to costs, and profits must come from that source rather than the oldfashioned way of adding profits to high costs. Poor management in the past must give way to good and better management. The factory research engineer has come into his own, and he, too, must do his part. The key to the whole operation is the co-operation between the sales and the factory. The market is also a vital consideration, but if there is no market, co-operation of this character will soon establish one, and the quality of production, with a constant cheerful and healthful condition will then exist; therefore, for one, I am willing to at least predict a very bright and prosperous 1928, with a glorification of a people, the majority of which are constantly building for a better, brighter, healthier, and more prosperous world, consequently 1928 should be much better than 1927.

Joseph Wrench, sales manager of Industrial Chemical Company warns against a too ardent exploiting of the chemical business and urges a continuation of research.

Mr. Wrench says:

"As a preface, permit me to say the tremendous diversity of the chemical industry, with its various major and minor subdivisions almost precludes, or at least makes difficult any worth while opinion on the composite activities. Its many branches related scientifically are often unrelated in their trade contacts. I am able to state, however, in our particular sphere, the past twelve months have been marked with steadiness and business in general has been satisfactory.

The future situation in the chemical industry may call for some further adjustment in specific instances. Apart from being subject to general economical disturbances, it may be the victim of its own research creating new and cheaper processes of manufacture and placing those already operating in jeopardy. Recent instances are too well known to mention.

Taking a broader view of industry, there appears on the

debit side:

1. Excess capacity—the aftermath of the war period—leaving a slack that has not yet been taken up. A tendency to over-produce that has prevailed in the chemical industry in common with other industries. Together, they present a problem demanding wise control and guidance, if the business ship is to be kept on an even keel.

2. Recession, or more correctly a further adjustment, is probable, but dealt with sanely is no cause for alarm. Insistence on a disproportionate share of the prevailing trade is a form of selfishness that can only too quickly bring an industry into distress. Striking a fair balance between supply and demand offers a reasonable solution.

3. The ready availability of "easy" money is forcing an artificial situation in certain directions that contains the germs of reaction, with dangerous potentialities.

(Continued on Page 884)

Who's Who in the Chemical Industry

Clarence Blake Flint, 1st v. p., Paige & Jones Chemical Co., Inc., New York. Born: Portland, Me., Mar. -18, 1879. Educat.: Bowdoin Coll., A. B., 1901. Mar.: Florence Pease, Brooklyn, Apr. 27, 1921. Children: two sons. Bus.: secy. & treas. Newton Fire Brick Co., Albany, N. Y. 1902-10; pres., Flint & Chester, Inc., 1912-21; v. p., Paige & Jones Chemical Co., 1922 to date. Mem.: University Club, Albany; Theta Delta Chi, Railroad Club of N. Y. Hobbies: golf, bridge, tennis.

Alfred P. Howes, pres., Howes Publishing Co., New York. Born; Brooklyn, N. Y., June 21, 1885; Educat.: Utica, N. Y. Free Academy, 1903; Cornell, 1907, A.B. Mar.: Winifred Covell, Rutherford, N. J. Apr. 18, 1911. Children: two. Bus.: Founded Howes Pub. Co., in 1918, with American Dyestuffs Reporter as sole publication; later acquired Knit Goods Weekly; Silk; Silk Digest Weekly. Mem.: Theta Delta Chi; Cornell; Chemists Club, N. Y.; Union Club; Yountakah Country Club, Nutley, N. J.: Salesmen's Assn. of Chem. Industry; Synthetic Organic Chem. Mfrs. Assn.; Amer. Assn. of Textile Chemists & Colorists. With co-operation of Louis A. Olney, editor of American Dyestuffs Reporter, promoted and established in 1920, "The American Assn. of Textile Chemists & Colorists.

Arthur Samuel Key, sec., Federal Chemical Co., Louisville, Ky. Born: Louisville, July 4, 1888; educat.: Louisville public schools, 2 years, Manual Training High School. Mar.: Evelyn May Keyer, Louisville, June 29, 1914. Bus.: Started as office boy with Federal Chemical Co., Dec. 20, 1904. Mem.: Elks, Transportation Club of Louisville, Louisville Board of Trade, Traffic Com. of Nat. Fertilizer Assn. Hobbies: Golf and horticulture.

Joseph W. Leberman, sales mgr. & treas., Enterprise Mill Soap Works, Inc., Phila. Born: Phila., Oct. 4, 1873. Educat.: Central High School, Pierce Bus. Coll. Mar.: Estelle Behal, Phila., June 2, 1903. Children: two sons, two daughters. Bus.: John & James Dobson, 1890-95; Enterprise Mill Soap Works, Inc., 1896 to date. Mem.: Chemical Club of Phila., Mercantile Club, Ashbourne Country Club.

Robert William Powell, owner, R. W. Powell & Bro., Goldsboro, N. C. Born: Goldsboro, N. C. Aug. 3, 1889. Educat.: Goldsboro High School, State College, Raleigh, N. C. Mar.: Huldah T. Slaughter, Goldsboro, Apr. 24, 1920. Children: 1 son. Bus.: est. company in 1918. Public record: 2 years in U. S. Army, 18 months. A. E. F., 318th F. A. 81st Div. Mem.: Alpha (Southern) Fraternity.

Esse Edgar Routh, Southern sales mgr., Mathieson Alkali Works, Inc. Charlotte, N. C. Born: Abingdon, Va., Jan. 4, 1886. Educat. Va. Polytechnic & Davidson College. Mar.: Brooke Jones, Union Level, Va., Nov. 17, 1917. Children: four. Bus.: asst. mgr. sales bicarbonate, 1909-12; mgr. 1912-19; Southern sales mgr., all products, since 1920. Mem.: Shriners, Charlotte Country Club, Southern Mfgrs. Club, Kiwanis Club. Hobbies: golf, music, trout fishing.

G. Leicester Thomas, gen. mgr. & treas., Thomas & Co., Frederick, Md. Born: Adamstown, Md., Feb. 24, 1880. Educat.: A. B., Franklin & Marshall Coll. 1901; A. M. 1903; Mar.: Louise Pearl Brown, Heart Lake, Pa., Feb. 15, 1905. Children: two sons, three daughters. Bus.: gen. mgr. & treas. Adamstown Canning Co., Colt Dixon Pckg. & Mfg. Co., Thomas & Co., dir. Frederickstown Savings Inst. Mem.: F. & A. M.; Oddfellows.

Outstanding 1927 Events In The Chemical Industry

JANUARY

William B. Thom elected president Westvaco Chlorine Products Co.

Luther Martin, Wilckes-Martin-Wilckes Co., oldest lamp black manufacturer in the United States celebrates 76th birthday.

Allied Chemical & Dye Corp. announces formation of Semet-Solvay Engineering Corp.

Henry Pfaltz, president, Pfaltz & Bauer, retires. Dr. John E. Teeple receives Perkin Medal.

Solvay & Co., Belgium, offers \$15,000,000 stock in Solvay American Investment Co.

FEBRUARY

Allied Chemical & Dye-Corp. announces plans for Hopewell, Va. fertilizer plant.

American Chemical Society establishes National Reearch Institute for Chemical Education with initial endowment of \$2,000,000.

E. I. du Pont de Nemours & Co. raises annual dividend on common stock to \$8 share.

MARCH

Dr. Ira Remsen, president emeritus Johns Hopkins University and inventor of saccharin, dies.

Chinawood Oil advances to 29c lb.

Dr. Roger T. Adams presented with William H. Nichols Medal.

Chilean Nitrate producers adopt free selling plan. Lazote, Inc., begins first American production of synthetic methanol.

APRIL

Alcohol advances to 37½ gal. for C. D. F. No. 5

I. G. Dyestuff Corp. files incorporation papers in
Louisiana

U. S. Industrial Alcohol Co. becomes Rockefeller controlled.

Commercial Solvents Corp. reports 60 per cent increase in earnings for first quarter of 1927 as compared with similar period of 1926.

National Lead Co. increases capitalization from \$50,000,000 to \$100,000,000.

MAY

Flood causes further advance in alcohol to 40c gal. Merck & Co. and Powers-Weightman-Rosengarten form \$9,000,000 merger.

Dr. James M. Doran appointed to succeed Roy A. Haynes as Commissioner of Prohibition.

Negotiations started for merger of I. G. and Imperial Chemicals, Ltd.

Principal French chemical industries merge into Union Chimique.

Ethyl acetate advances 13c gal. in week.

N. V. Potash My., formed by French Potash Society and Potash Importing Co. of America.

JUNE

E. I. du Pont de Nemours & Co. obtains American rights to Casale and Liljenroth patents.

Celanese Corp. of America announces Morgan aid in \$25,000,000 refinancing.

First International Congress of Soil Science held in Washington.

JULY

Brewster acetic acid patent rejected by Patent Office. Institute of Chemistry holds first session at State College, Pa.

Carbide & Carbon Chemical Corp. announces new marketing plans for ethylene glycol as antifreeze.

AUGUST

Caesar Augustin Grasselli, chairman of the board, Grasselli Chemical Co., dies.

Standard Oil Co. of N. J. and the I. G. announce cooperative agreement on patents.

SEPTEMBER

American Chemical Society holds Fall meeting in Detroit. Rejects Bertholett Memorial.

Dr. Doran, Commissioner of Prohibition, announces plan to control alcohol production.

Eleventh Exposition of Chemical Industries and Fifth Annual Chemical Industries Banquet held in New York.

OCTOBER

Davison Chemical Co. and Pyrites Co., Ltd., combine interests in Cuba.

 G. and French Central Committee reach agreement on dyestuffs and fertilizers.

 G. reported seeking stock listing on N. Y. Stock Exchange.

NOVEMBER

First meeting of industrial alcohol advisory council with Commissioner Doran decides to attempt restriction of alcohol production to 85,000,000 gallons during 1928.

I. G. and Norsk Hydro reach nitrogen agreement. Davison Chemical Co. acquires Pick Fertilizer Service, Inc.

Fred L. Lavanburg, president, Fred L. Lavanburg Co., dies.

Mercury advances to \$129.00@\$132.00 flask.

National Fertilizer Association holds third annual convention at Atlanta.

Mathieson Alkali Works, acquires B. P. Clapp Ammonia Co.

E. I. du Pont de Nemours & Co. raises dividend on common stock to \$10 a share.

(Continued on Page 936)

(Continued from Page 882)

4. A speculative trend which, if persisted in, must inevitably lead to inflation and is indicative of future uncertainty. Expanded, it develops top-heavy conditions that only costly readjustment can correct.

On the credit side, we have:

1. A prevailing financial structure that has already proven its capability to absorb minor, if not, major disturbances, sufficient to maintain business equilibrium. Arising out of same, a gradual recognition that no marked swing of the business pendulum or trade cycle is any longer inevitable.

2. A general employment situation that is satisfactory, at good wages, which, coupled with abundant crops, provides in the mass a great latent purchasing power. As a result of economic research, the recent responsible indorsement and approval of instalment buying is an additional favorable portent.

3. Increase in industrial efficiency, with a consequent lowering of costs, that not infrequently permits of widening

4. Present-day inventories standing at such low levels providing good insurance against possible deflation while, at the same time, insure immediate benefit from any upward trend

5. A demonstration of inherent soundness in the good and consistent earnings of public utilities, and the improved earnings of railroads.

6. The emergence of such basic industries as textiles and leather from the post-war crisis.

Accepting these premises, the balance to be drawn is distinctly a "creditable" one and pre-supposing the business mind will function sanely, the future can be looked at with no little optimism.

So far as it concerns our industry, the well-nigh universal application of chemicals must bring a direct reflection and a participation in the common welfare. As a precaution, however, it would appear wise to gear the industrial machine to a speed at which it can safely travel without running off the track. Meanwhile, devoting time and research towards the creation of new domestic markets, associated wherever feasible with a fore-sighted policy of developing and maintaining export trade.

George Simon of Heyden Chemical Corp. calls attention to the fact that 1928 is presidential year but is confident that business will not be seriously affected. Leading up to this conclusion he writes:

"The future is to be born out of the past and the present. Let us see what we can learn from these to frame our opinion about the coming year and what it will bring for the chemical industry.

"As an inheritance of the World War, there still exists over-production. The consumption in our country has not yet grown to a point where the factories expanded during a time of abnormal demand for their products, can be operated to full capacity. Attempts by many manufacturers to do so, in spite of the difficulty to dispose of their products, have lead to large inventories and unsatisfactory The failure to obtain a fair return for the money invested in plants and research is unfortunate because more money will have to be on research, and the brains of our chemists have to work harder than ever if the American chemical industry is to retain the high position which it has attained during the last decade.'

"Numerous new inventions and advancements in methods of manufacture are to the credit of 1927, but the coming year will show further developments. Important chemicals which in the past were derived from organic substances, chiefly coal tar, are now made by contact processes from materials taken out of the inexhaustible supplies of the air and water. A new era in the chemical industry has com-

New Incorporations

Robert Beyer Corp., New York, 10,000 shares common stock; machinery, chemicals, W. F. McCormack, Bill Drafting ommission Office, New York.

Paint Products Stores Corp., Wilmington, Del., \$200.000 and 10,000 shares no par value; Corp. Trust Co. of America, Wilmington,

Redoute Chemical Works, Inc., Detroit, Mich., \$100,000; cleaning compounds Franklin L. Mettler, Wilmington, Del.

New Process Cork o., New York, 200 shares common stock; cork products. Leary & Rood, 120 B'way., New York.

National Holding & Exploiting Co., New York, \$100,000; chemists, dry salters. W. Klein, 1,440 B'way., New York.

Acetol Products, Inc., Wilmington, Del., 300,000 shares no parallel.

value; materials for protective coating for sealed containers. Corp. Trust Co. of America, Wilmington, Del.

Dragon Chemical Corp., New York, \$200,000; Spencer & Iserman, 100 West 41st St. New York.

R. S. Cooper Glue Co., New York, \$20,000; M. Gross, 3,208-3rd. Ave., New York

Sage Rayon Corp., Newark, N. J., \$50,000; mfg. rayon. Harry Swartz, Newark, N. J.

Agricultural Chemical Works, Inc., Wilmington, Del., \$250,000 and 2,500 shares no par value, oils, fertilizers, minerals. Corp. Trust Co. of America, Wilmington, Del.

Warren Refining & Chemical Co., Richmond, Cal.; \$25,000; W. T. Bray, J. P. Herr, C. W. Kelsey.

The Apex Chemical Co. Ltd., London, Ont., \$30,0000 and 600 shares of no par value. Richard F. Gowan, Sebastian Gilles, George A. Arthur.

The Economy Drug Store Ltd., Toronto, Ont., \$40,000; mfrs.drug & chemicals. Solomon Steiner, David Muir, David Lands-

The Gerard F Schmidt Ltd., Toronto, Ont., \$50,000; mfrs. chemicals. Archibald W. Langmuir, Norman E. Strickland, George E. Atwood. The International Fibre Board Ltd., Ottawa, Ont., \$3,325,000 and 10,000 shares of no par value; mfrs. paper products. Francis C. Dobell, John L. Bishop, Claude S. Richardson.

The General Power & Paper Co., Ltd., Montreal, Que. 50,000 shares of no par value. John W. P. Ritchie, Edward J. Waterson, William H. Wilson.

menced, and the field of development is so wide in scope that nothing may seem impossible of achievement. this has also its drawback because enterprises which are prospering today may become obsolete tomorrow, as their processes may be superseded by new and better ones.

"It is conceded that business conditions in general are sound, and with generally good business, the chemical industry must also prosper because its products go into every line of manufacture. With the growth of the country, an increase of consumption has prevailed on the average for some years. This will probably continue and make it possible for the manufacturers of chemicals to dispose of more of their goods. Hand in hand with this must come a stabilization of prices which may be hoped for during the

"Next year will be a year for presidential election. This usually has a retarding influence on business, particularly as it is almost certain that tariff-discussion will play an important.part in the campaign. But fears and uncertainties as to the continuation of a protective tariff policy, sobadly needed by the chemical industry, cannot change the underlying fundamental conditions which are sound and augur well for a prosperous new year that may come to the chemical industry."

From the sales manager of one of our largest chemical manufacturers in the Mid-West this opinion is received:

It seems to me that we can expect a betterment of business conditions in the future, and possibly the turning point is being reached right now. So far as our own experience is concerned, there has been no appreciable change noticeable, except since sometime in September, and even at that, September was a better month with us this year than last. There has been a falling off in our ratio of increase in sales, but we notice already a slight turn for the better, and we seem to be able to sense these things pretty well because our products reach into so many lines of industry. I feel that 1928 should be a good year-and I think that is about all I have to say.

The Industry's Thoughts On Frozen Development

Causes for delay and neglect in the application of new processes and improvements are not generally known—even to the originator of the new ideas—the delays might rather be classed as due to rational policies than to sequestering ideas" writes Hermann E. Kreider of Columbia Chemical Division of Pittsburgh Plate Glass Company.

"Recommended improvements on established processes are considered, and if facts and figures show an advantage, they are generally adopted. It might well be termed a natural law of policy, as profit is desirable and the satisfaction of the customer is inductive to more extended business connections. However, facts and fig-

ures for extensive alterations dare not be taken too far afield. The investor's welfare is dependent on the executive's judgment."

"A change in process and judgment involves a large amount of capital. Not only must the known returns from an established plant be compared with the problematical returns from the proposed plant with the additional outlay, but competitive interests are making research along the same lines, and if the spirit prevails to gamble on research developments without very careful consideration, someone may find themselves with a new or improved plant—still obsolete. Each industry has its own peculiar problems, and there are none better informed on its contingencies than the executives who shall direct the program. It is natural they be cautious but that same sound caution is not going to let new developments pass that will make good investments for their company."

"The chief function of an executive is to make decisions based upon all the available facts at any given time. Naturally, relevant fact will vary under given circumstances," is the opinion expressed by F. F. Jordan vice-president of Emery Candle Company, Cincinnati. "In my former consulting practice, I have seen this question properly answered both ways. However, based upon my meager experience, if all things are equal, I should say the answer is to scrap the plant before obsolescence. This is sounder policy in this day of overproduction than it was before the War. This is especially true in the chemical industry as one must not only keep ahead of domestic competition, but also must keep on even terms at least with potential if not actual cartel competition. It also, as a policy, works wonders in keeping one's minor executives on their toes—it builds morale."

While not fully applicable to the carbon black industry, Thomas D. Cabot of Godfrey L. Cabot, answers the question

Much Debate and Some Interesting Theories Have Been Brought to Light By An Editorial "Frozen Development" Appearing In This Issue. Advance Copies Have Been Sent to Various Authorities on the Subject, Resulting in the Accompanying Comments on This All Important Question.

in this manner." The question asked in your editorial on "Frozen Development" must be a very real one in most branches of the chemical industry. In the carbon black industry, plants have always been abandoned because of the depletion of the gas fields in which they were located, rather than from obsolescence.

In case the large amount of research we are doing results in any fundamental improvement in our process, it would certainly be our policy to make the investment necessary to benefit by this discovery at all our plants, even though we were not forced to do so by competition. We are never satisfied, but wish to progress, and will not fail to make use of any foothold or handhold that will

lead us upward.

"Waste, inefficiency, senile processes, antiquated plant, and unscientific practices in general" in the opinion or W. A. Hamor, Assistant Director, Mellon Institute" are the foes of profitable operations. Effective intelligence service on market conditions and adequate technical research on plant production problems are the agencies upon which dynamic, successful business is most dependent."

"Strenuous competition such as prevails these days is the factor that most influences progressive change or development improvement. It has brought respect for industrial research, simplified practice, efficiency programs and statistics. Paradoxically, associated effort has effected beneficial concerted vigilance fact finding, and progress in technologic and market research. It has become a truism to say that scientific research has exercised a profound influence on industry, particularly on the character and direction of manufacturing methods. It is equally true that industry has had a great influence on scientific research. By providing opportunities, industry has led to the improvement and extension of research procedures."

"Business is being conducted on a wider scale and at greater speed than ever before. This makes it hard for the weak and the inefficient manufacturers, but opens a wonderful vista to those who are strong, able, free from the influence of precedent, and appreciative of the possibility of improving on the methods of the past. Modern business is therefore especially receptive respecting the application of science in the correction of production, advertising and sales troubles"

Stating that "Our invariable practice is immediately to scrap any part of the plant that can be improved in any way," Richard V. Mattison, president of Keasbey and Mattison Company continues, "we believe in keeping the production up-to-date in management, method, and type. If

we made a great improvement, we certainly would not put it in the safe, waiting for a more convenient time to exploit it, when the pressure of competition would make us do so, as it has always been our idea to be "up and doing" before the other fellow gets awake, if possible.

Edward H. Carus, president of Carus Chemical Company outlines the policy of his company by saying "Our policy has been to apply results of research work to plant operation as quickly as possible. The fact is we once did so to our sorrow, as the change worked satisfactorily, by itself, but caused other troubles down the line, so that we had to change back. We estimate that our loss from scrapping equipment due to change in process is greater than the actual depreciation. The word "obsolescence" has been used for such loss, and we consider any unit obsolete which is not worn out by use but which it pays to replace by a more efficient unit. We note you use this word in a different sense."

"To make any change in a process is not only some financial risk, but a greater one chemically speaking, because new troubles frequently appear where least expected."

What the Chemist Thinks

From the angle of the research chemist, Paul J. Carlisle of Roessler and Hasslacher Chemical Company says "Twenty years ago a general policy might have been of use, but today each question of the type you propose must be a separate problem to be solved with respect, not only to the particular chemical involved, but also with ample thought to the effect on the general program of growth. It is not too much to say that in a well-ordered chemical establishment the necessity for discussing such a question should not arise. With a large proportion of net earnings going back into research, every dollar must be spent wisely. That calls for plans and above all, a plan, one which looks forward not for a year, but for five or ten years. Such a plan, properly formulated, makes of research an effective instrument. Improvements in processes or in products then are not accidental. They come as the result of careful planning and decision that such improvements are advisable. Consequently, their arrival raises little or no question concerning their utilization."

Of the opinion that frozen development rotates around a question of sound business judgment, Jerome Alexander,

New York consulting chemist continues.

Whether it is better to put new discoveries into immediate use, or to hold them in reserve seems to me a matter of careful calculation and business expediency, to which no answer of general application can be given. Just as a mariner has to meet whatever weather may come, so too a business executive must be able to navigate his craft under conditions not of his own making. Herein lies the big difference between the manufacturing and the merchandising problem.

"If the changes are relatively inexpensive, if the product has material advantages, if the improvement is not apt soon to be superseded, if the necessary capital is available without onerous conditions or consequences, if market conditions are favorable, and many more IFS, then the change might be considered and made. On the other hand, some executives take the position of Fafnir, "I have, and I hold,"—and practically tell the bringer of an improvement: "We have the business now. Go ahead, and see what you can do. If you survive the 'infantile diseases," and begin to hurt us—then we'll buy you out at a good price."

"In applied science and in business as well, there is no substitute for sound judgment following an investigation of ALL the existing conditions and factors. Blind adherence

to any formula may lead to ruin.'

Briefly summing up the policy of David Berg Industrial Alcohol Co., W. J. Lehman is of opinion that "The pioneer who installs new machinery not hitherto proved in practice must necessarily be gambling to a certain extent on its suc
(Continued on Page 928)

The Editor's Correspondence

EDITOR, CHEMICAL MARKETS:

For clarification of the notice published in your November 3 issue, concerning the new decree of the minister of foodstuffs and agriculture on the use of hydrocyanic acid and cyanides for combating horticultural pests, we offer the following remarks:

The new order was put in effect August 29, 1927, and was for the purpose only of clarifying the various rules of this department. It will be supplemented by suitable decisions and all decrees and orders issued previously by the separate German provincial authorities are settled by it. The orders pertaining to the use of hydrocyanic acid for combating horticultural pests have not been recalled and will not be recalled by the new decree. For special cases a modification of the meaning is provided.

Very truly yours,

German Society for Combating

Horticultural Pests.

EDITOR, CHEMICAL MARKETS:

I have read with interest stories in the current issue of Chemical Markets by Mr. W. J. U. Woolcock on British Chemical Progress and Mr. J. H. Lucas on The Cartel and France. The substance of the statement by these two men, who are in position to speak authoritatively, is timely and to the point, and I think you are to be congratulated upon being able to publish two such interesting statements.

Very truly yours,

C. C. Concannon,
Chief, Chem. Div., Dept. of Commerce.

Foreign Trade Opportunities

	OFF.
Amyl-alcohol and aldehyde 28618	Hamburg, Ger
Benzol 28520	Hamburg, Ger
Blue, Prussian, sodium per- 28519	Dresden, Gern
harata lithium amida ata	Dresden, Gern
borate, lithium oxide, etc., for ceramic industry.	
for ceramic industry.	
Borax, industrial and phar- 28523	Bordeaux, Fr
maceutical.	
maceutical. Chemicals 28619	Amsterdam,
	lands.
Chemicals, industrial	Rio de Janei
Themicals, industrial 20521	
nemicals, industrial 28522	Barcelona, St
hemicals, industrial 28566	Oslo, Norway
Chemicals, industrial 28569	Habana, Cub
Chemicals, textile industry 28521	Rio de Janei
and match-manufacturing Dyestuffs	
Prestuffe 20521	Rio de Janei
Dainta	Paraelena C.
aints, enamels, and var- 28522	Barcelona, Sp.
nishes.	
Paints, oils and varnishes 28521	Rio de Janei
Pyroxylin plastic, cheap, 28546 making combs. Soda, bichromate 28522	Benares City,
making combs	
oda hichromate 28522	Barcelona, Sp.
heid combonie 20710	Filamburg C
Acid, carbonic 28710	Eilenburg, G
Acid, chromium 28658	Leipzig, Gerr
Acids, fatty, vegetable 28711	Madgeburg, G
and animal.	
Bentonite, raw, Peruvian 28661	Coswig, Germ
other and light vellow	
other, and light yellow ocher.	
Dlack 1 20064	C T. 1.
Black, lamp 28664	Genoa, Italy
torax 28663	Antwerp, Bel
Carbon dioxide, solid 28659	Milan, Italy
Carbon dioxide, solid 28659 Chemical products 28663 Chemicals, household 28666	Antwerp, Bel
hemicals household 28666	Lille, France
Dyes, aniline 28651	Buenos Aire
Dyes, annue 20031	
Ssences, flowers 28721	tina.
eather dyeing and polish- 28633	Erfurt, Germa
ing chemicals.	
Magnesia, sulphate 28651	Amoy, China
Paints 28733	Buenos Aire
20/03	tina.
2000	Tilla.
Pearl essence 28660	Durango, Me
Phosphate rock 28662	Durango, Me Hamburg, Ger
Rosin 28712	Neuss, Germ
Rosin 28728	Neuss, Germ Tokyo, Japan
Rosin 28664	Christchurch,
AUSIII 60004	Zooland

Hamburg, Germany Purchase
Dresden, Germany Purchase
Bordeaux, France Agency
Amsterdam, Nether- Purchase lands.
Rio de Janeiro, Brazil Agency
Barcelona, Spain Agency
Oslo, Norway Agency Habana, Cuba Agency
Habana, CubaAgency
Rio de Janeiro, Brazil Agency
Rio de Janeiro, Brazil Agency
Barcelona, Spain Agency
Rio de Janeiro, Brazil Agency
Benares City, India Purchase
benares city, India Furenase
Barcelona Spain
Barcelona, SpainAgency
Lifenburg, Germany Purchase
Eilenburg, Germany Purchase Leipzig, Germany Purchase Madgeburg, Germany .Purchase
Madgeburg, Germany . Purchase
Coswig, GermanyPurchase
Genoa, ItalyAgency Antwerp, BelgiumPurchase
Antwerp, Belgium Purchase
Milan, ItalyPurchase
Antwerp, Belgium Purchase
Lille, FranceAgency
Buenos Aires, Argen- Agency
tina.
Erfurt, Germany :Purchase
Amoy, China Purchase
Amoy, China Purchase Buenos Aires, Argen- Agency
tina.
Durango Marioo Purchase
Hamburg Cormony Durchase
Durango, MexicoPurchase Hamburg, GermanyPurchase Neuss, GermanyBoth
Neuss, Germany
Tokyo, Japan Purchase

Zealand.

Germany Eeither

Caustic Poison Act Regulations

Pursuant to the authority contained in an Act entitled "An Act to safeguard the distribution and sale of certain dangerous caustic on corrosive acids, alkalies and other substances in interstate and foreign commerce," approved March 4, 1927, which Act specifically mentions: Hydrochloric acid, 10 per cent; sulfuric acid 10 per cent; nitric acid 5 per cent; carbolic acid on phenol 5 per cent; oxalic acid 10 per cent; any salt of oxalic acid 10 per cent; acetic acid 20 per cent; hypochlorous acid, free or combined, and preparations yielding by weight 10 per cent or more available chlorine, excluding cal chlorinata, bleaching powder, and chloride of lime; potassium hydroxide 10 per cent; silver nitrate 5 per cent; ammonia (NH3) 5 per cent; the following rules and regulations have been made and were promulgated by the Department of Agriculture on December 8, 1927.

The Act is to be enforced by the Food, Drug & Insecticide Administration, Department of Agriculture

Regulation I. Definitions: (a) The word "container" as used in these regulations means a retail parcel, package or container suitable for household use and employed exclusively to hold any dangerous caustic or corrosive substance defined in the Act.

(b) The words "suitable for household use" mean and imply adaptability for ready or convenient handling

in places where people dwell.

Regulation II. Scope of the Act: The provisions of the Act apply to any container which has been shipped or delivered for shipment in interstate or foreign commerce, as defined in Section 2 (c) of the Act, or which has been received from shipment in such commerce for sale or exchange, or which is sold or offered for sale or held for sale or exchange in any territory or possession or in the District of Columbia.

Regulation III. Labels: (a) The label or sticker shall be so firmly attached to the container that it will remain thereon while the container is being used, and

be so placed as readily to attract attention.

(b) The common name of the dangerous caustic or corrosive substance which shall appear on the label or sticker is the name given in Section 2 (a) of the Act or any other name commonly employed to designate and identify such substance.

(c) Preparations within the scope of the Act, bearing trade or fanciful names, shall, in addition, be labeled with the common name of the dangerous caustic or corrosive substance contained therein and comply with all the other requirements of the Act and these regulations.

(d) If the name on the label or sticker is other than that of the manufacturer, it shall be qualified by such words as "packed for", "packed by", "sold by", or "distributed by", as the case may be, or by other appropriate expression.
(e) The following are styles of uncondensed gothic

(e) The following are styles of uncondensed gothic capital letters 24-point size. (These styles may be obtained from Food, Drug & Insecticide Administration,

Dept. of Agriculture).

(f) Except as provided in paragraph (g) of this regulation, the container shall in all cases bear upon the label or sticker thereof, immediately following the word "Poison", directions for treatment in the case of internal personal injury; in addition, if the substance may cause external injury, direction for appropriate treat-

ment shall be given. The directions shall prescribe such treatments for personal injury as are sanctioned by competent medical authority and the materials called for by such directions shall be, whenever practicable, such as are usually available in the household.

(g) Manufacturers and wholesalers only, at the time of shipment or delivery for shipment, are exempted from placing directions for treatment on the label or sticker of any container for other than household use, but in any event the information required by Section 2 (b), (1), (2) and (3) of the Act and these regulations shall be given.

(h) A person who receives from a manufacturer or wholesaler any container which under the conditions set forth in Section 2 (b) (4) of the Act and Regulation III (g) does not bear at the time of shipment directions on the label or sticker if he offers such container

for general sale or exchange.

Regulation IV. Guaranty: (a) If a guaranty in respect to any specific lot of dangerous caustic or corrosive substances be given, it shall be incorporated in or attached to the bill of sale, invoice or other schedule bearing date and the name and quantity of the substance sold, and shall not appear on the label or package. The following are forms of specific guarantees:

(1) Substances for both household use and for

other than household use:

The undersigned guarantees that the retail parcels, packages or containers of the dangerous caustic or corrosive substance or substances listed herein (or specifying the substances) are not misbranded within the meaning of the Federal Caustic Poison Act.

(Signature and address of guarantor)
(2) Substances for other than household use.
This form may be issued only by a manufacturer or wholesaler (See Regulation III, (g) and (h).

The dangerous caustic or corrosive substance or substances listed herein (or specifying the substances) in retail parcels, packages or containers suitable for household use are for other than household use, and are guaranteed not to be misbranded within the meaning of the Federal Caustic Poison Act.

(Name and address of manufacturer or wholesaler)

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(b) In lieu of a particular guaranty for each lot of dangerous caustic or corrosive substances, a general continuing guaranty may be furnished by the guarantor to actual or prospective purchasers.

The following are forms of continuing guarantees:
(1) Substances for both household use and for other

than household use:

The undersigned guarantees that the retail parcels, packages or containers of the dangerous caustic or corrosive substance or substances to be sold to are not misbranded within the meaning of the Federal Caustic Poison Act.

(Date) (Signature and address of guarantor)
(2) Substances for other than household use. This form may be issued only by a manufacturer or wholesaler. (See Regulation III, (g) and (h).

The dangerous caustic or corrosive substance or

substances in retail parcels, package or containers

suitable for household use to be sold to

are for other than household use, and are guaranteed not to be misbranded within the meaning of the Federal Caustic Poison Act.

(Date) (Signature and address of manufacturer or wholesaler).

Regulation V. Collection of Samples: (a) Sample for examination by or under the direction and supervision of the Food, Drug and Insecticide Administration shall be collected by—

(1) An authorized agent in the employ of the United

States Department of Agriculture.

(2) Any officer of any state, territory or possession or of the District of Columbia authorized by the Secretary of the United States Department of Agriculture for the purpose.

(b) Caustic or corrosive substances within the scope

of this Act may be sampled wherever found.

(c) Samples collected by an authorized agent shall be analyzed at the laboratory designated by the Food, Drug and Insecticide Administration.

(d) Only such samples as are collected in accordance with this regulation may be analyzed by or under the direction and supervision of the Food, Drug and Insecticide Administration.

(e) Upon request one subdivision of the sample, if available shall be delivered to the party or parties in-

terested.

Regulation VI. Investigations: Authorized agents in the employ of the United States Department of Agriculture may make investigations, including the inspection of premises where dangerous caustic and corrosive substances subject to the Act are manufactured, packed, stored or held for sale or distribution and make examinations of freight and other transportation records.

Regulation VII. Analysis: (a) The methods of examination or analysis employed shall be those prescribed by the Association of Official Agricultural Chemists, when applicable, provided, however, that any method of analysis or examination satisfactory to the Food, Drug and Insecticide Administration may be employed.

(b) All percentages stated in the definitions in Section 2 (a) of the Act shall be determined by weight.

Regulation VIII. Hearing: Whenever it appears from the inspection, analysis or test of any container that the provisions of Section 3 or 6 of the Act have been violated and criminal proceedings are contemplated, notice shall be given to the party or parties against whom prosecution is under consideration and to other interested parties, and a date shall be fixed at which such party or parties may be heard. The hearing shall be held at the office of the Food, Drug and Insecticide Administration designated in the notice and shall be private and confined to question of fact. The parties notified may pre-

sent evidence, either oral or written, in person or by attorney, to show cause why the matter should not be referred for prosecution as a violation of the Federal Caustic Poison Act.

No hearing is provided for when the health, medical, or drug officer or agent of any state, territory, or possession, or of the District of Columbia, acts under the authority contained in Section 8 of the Act in reporting a viola-

tion direct to the United States Attorney.

Regulation IX. Publication: (a) After judgment of the court in any proceeding under the Act, notice shall be given by publication. Such notice shall include the findings of the court and may include the findings of the analyst and such explanatory statements of facts as the Secretary of Agriculture may deem appropriate.

(b) This publication may be made in the form of a circular, notice, or bulletin, as the Secretary of Agricul-

ture may direct.

(c) If an appeal be taken from the judgment of the court before such publication, that fact shall appear.

Regulation X. Imports: (a) Containers which are offered for import shall in all cases bear labels or stickers having thereon the information required by Section 2 (b), (1), (2) and (3) of the Act and the directions for treatment in the case of personal injury except such directions need not appear on the label or sticker at the time of shipment by a wholesaler or manufacturer for other than household use.

(b) The enforcement of the provisions of the Federal Caustic Poison Act as they relate to imported dangerous caustic or corrosive substances will, as a general rule, be under the direction of the chief of the local inspection stations of the Food, Drug and Insecticide Administration, United States Department of Agriculture and collectors of customs acting as administrative officers in carrying out directions relative to the detention, exportation, and sale or other disposition of such substances and action under the bond in case of noncom-

pliance with the provisions of the Act.

(c) Containers shall not be delivered to the consignee prior to report of examination, unless a bond has been given on the appropriate form for the amount of the full invoice value of such containers, together with the duty thereon, and on refusal of the consignee to return such containers for any cause to the custody of the collector when demanded, for the purpose of excluding them from the country or for any other purpose, the consignee shall pay an amount equal to the sum named in the bond, and such part of the duty, if any, as may be payable as liquidated damages for failure to return to the collector on demand all containers covered by the bond.

(d) As soon as the importer makes entry, the invoices covering containers and the public stores packages shall be made available, with the least possible delay, for inspection by the representative of the station. When no sample is desired, the invoice shall be stamped by the station "No sample desired, Food, Drug and Insecticide Administration, U. S. Department of Agriculture,

per (initials of inspecting officer)."

(e) On the same day that samples requested by the station, the collector or appraiser shall notify the importer that samples will be taken, that the containers must be held intact pending a notice of the result of inspection and analysis, and that in case the containers do not comply with the requirements of the Federal Caustic Poison Act, they must be returned to the collector for disposition. This notification may be given by the collector or appraiser through individual notices to the importer or by suitable bulletin notices posted daily in the customhouse.

(f) No Violation. Release: As soon as examination of (Continued on Page 932)

[News and Markets Section]

"Muscle Shoals Useless For Fertilizers"--Jardine

Statement Made In a Letter Discussing Muscle Shoals Situation—Synthetic Developments Has Voided Its Usefullness—Advises Disposal of Property With Use of Income For Solution of Fertilizer Problem.

(Special to CHEMICAL MARKETS)

Washington, D. C., Dec. 21—Secretary of Agriculture Jardine believes that Muscle Shoals is no longer significant for fertilizer purposes, because of the development of the synthetic ammonia process for the fixation of nitrogen in this country. In a letter to S. S. Wyer, consulting engineer of Columbus, Ohio, discussing the fundamentals of our fertilizer problem, Mr. Jardine says:

"In fixing nitrogen from the atmosphere, the art has rapidly changed from the original arc process, where cheap electric power was a dominating factor, to the later synthetic ammonia process requiring only 1/16 of the power of the former, and where coal and economic position are of much more importance than electric power by itself. The much-discussed Muscle Shoals project of the United States Government, based on electric power, could furnish but 1/5 of the nitrogen used in commercial fertilizers in the United States and 8/10 of 1 per cent of the nitrogen used by our

"Research and development have vastly altered the situation and it has been difficult for the public to recognize the changed conditions. We are convinced that there are cheaper methods of manufacturing fertilizer than under the set up at Muscle Shoals. A sound solution of Muscle Shoals would be to dispose of the power to the best advantage and utilize the income in the broad solution of the fertilizer problems."

Mr. Jardine's letter is part of the booklet "Fundamentals of Our Fertilizer Problem", prepared by Samuel S. Wyer for the Fuel-Power-Transportation Educational Foundation that was created by the Ohio Chamber of Commerce, Columbus, Ohio, copies of which were made public today.

The facts set forth in the 36 paragraphs of the booklet will greatly aid the public to recognize the changed conditions. In discussing

the human interest in and dependence upon the soil, the annual needs for nitrogen in the United States for agriculture alone are put at nine million tons. The nitrogen returned to the soil from manures, legumes, bacterial action, and rain are put at 5,250 thousand tons. Commercial fertilizer supplies about 216 thousand tons, showing a gradual depletion of our soil to the extent of more than 31/2 million tons annually. and consequently the importance of increased nitrate supplies. sources of nitrogen from Chilean nitrate, from bituminous coal, and from nitrogen from the air are then presented in a clear and concise manner, followed by significant statements relative to Muscle Shoals and the fertilizer problem. To quote from the bulletin:

"If we stopped our present barbarous methods of burning raw bituminous coal, with the resulting unnecessary domestic smoke nuisance and instead took the by-products out of the domestic coal and used the residue coke, we could save 4 times as much nitrogen as could have been made at Muscle Shoals.

"In brief, the changes in the art of nitrogen fixation have been so rapid that most of the Muscle Shoals set-up is out of date and to talk of cheaper fertilizer here for the farmer is merely creating a false hope."

Potash and phosphate and the problem of concentrated fertilizer are not over-looked, while the statistics graphically presented showing the distribution of the fertilizer industry in the United States and sales by states throw additional light on the fertilizer problem.

INSECTICIDE MAKERS ELECT H. W. HAMILTON

H. W. Hamilton, production manager, White Tar Co. of N. J., was elected president, succeeding Fred A. Hoyt who had served three terms, and Harry W. Cole, Baird & McGuire, Inc., re-elected secretary, at the fourteenth annual meeting of Insecticide and Disinfectant

Manufacturers' Association in New York last week. Other officers elected were Evans E. A. Stone, Standard Oil Co. of N. J., first vice-president; J. W. Bailey, Tanglefoot Co., second vice-president; and Robert W. Jordan, Wm. E. Jordan & Bro., treasurer. Thirty-six of the members participated in an exhibit which was held in conjunction with the convention while registration of members and guests who attended the three day session totaled 106.

In addition to reports of officers and committees relative to the association's work and interests, the convention was addressed by T. O. Grisell, George Batten Co., on "Budgetary Control of Sales and Advertising"; by David H. Sloane, secretary, Association of Printing Ink Manufacturers, on "Cost Finding Methods"; R. C. Edlund, manager, Association of Soap and Glycerine Producers, on "Cooperative Advertising and Publicity"; R. D. Keim, general sales manager, Squibb & Co., on "Salesmen and Salesmanship"; Dr. W. M. Mac-Kellar, Department of Agriculture, on "Tick Eradication"; and Capt. James H. Bogart, Chemical Warfare Service, U. S. A., on "Control of Insect Pests".

A feature of the three-day meeting, was a testimonial banquet given on the evening of Dec. 13, to Dr. J. K. Hayward, U. S. Dept. of Agriculture, at which time J. W. Bailey, A. O. Ponder, Dr. George F. Reddish, Harry W. Cole, and others spoke in honor of the guest of the

evening.

Work on the plant of Atmospheric Nitrogen Co., at Hopewell, Va., is going forward rapidly. Night and day shifts are being used, and there are large numbers of men employed in these giant shifts. In order to work at night flood lights have been installed.

The large power plant is going up rapidly. Two storage tanks for water, said to be the largest in the world, are being erected. The office building of the Atmospheric Nitrogen Co. is said to be modern in every respect. The first unit must be completed by Jan. 1, 1929. One steel building has been erected and another five-story building is under erection.

BRITISH CONTEMPLATE NITROGEN INCREASE

(Special to CHEMICAL MARKETS)

Washington, D. C., Dec. 21—An additional 100,000 tons of nitrates a year are provided for in extensions to be started shortly by Imperial Chemical Industries, Ltd. at the plant of their subsidiary Synthetic Ammonia Nitrates, Ltd. at Billingham-on-Tees, reports Trade Commissioner Homer S. Fox, London. The new extension is expected to be completed by 1930, when it will give employment to 10,000 more persons. It is said that 25,000 tons of structural steel have already been ordered from a British manufacturer for the new construction.

Announcement of this extension is interesting in view of the statement in the Annual Report of the British Sulphate of Ammonia Federation recently issued, and again mentioned in the address of the Chairman at the Annual Meeting of the Federation, to the effect that a further very large increase in the output of synthetic nitrogen is anticipated during the current year, amounting to probably about 18 per cent over the world total output for the immediately preceding year, which in turn accounted for a 17 per cent increase over 1925-1926.

Also it was pointed out that a still further increase is expected during the year 1928-29, even if only a portion of the programmes already announced by synthetic nitrogen producers in various countries is realized. The Chairman of the Federation added that if the rate of increase in consumption in the past is any guide, it seems more than doubtful whether the full output announced for 1928-29 can be consumed, and that, therefore, a difficult situation for producers might arise unless some restriction in production can be brought about.

Stein Hall & Co., New York, held its fifth annual sales convention in New York December 14 to 16. There was an attendance of fifty managers and salesmen from the eleven branches maintained by the company at Boston, Philadelphia, Chicago, and other cities. Luncheon was served daily at the Belmont Hotel and Friday night the visitors were entertained at the Ziegfeld Theatre.

Dr. Charles H. Herty, Chemical Foundation, and Dr. William Jay Hale addressed the naval stores section, Savannah Board of Trade, last week.

Puritan Rubber Co., Trenton, N. J., has filed plans for a new one-story addition, estimated to cost about \$30,000.

Commerce Dept. Ideas on Conflicting Cartel Rumors

Express Opinion That European Movements Should Cause No Great Concern Here—Agents Abroad Instructed To Report All Details Which Develop—Believe That Ultimate Consummation is Inevitable—Conflicting Report Testimony to Agents Watchfullness Abroad.

Conflicting and indefinite reports on the progress of the European chemical cartel movement are not causing officials of the Department of Commerce great concern or perplexity. Opinion in Washington is that the chemical industries of the leading nations of Europe are working toward a community of interest; that consummation of this idea on some working basis is inevitable, and that regardless of what interests may join or withdraw at any given time, and regardless of the terms of agreement that may be placed on paper, the European chemical cartel is a fact and should be recognized as such.

The European agents of the Department of Commerce have been instructed to report at once any details of the movement toward international industrial combines. In the past week the department has received cables from its chemical trade commissioners in Paris, London and Berlin regarding developments of the cartel. From Paris comes word that British interests are reported to be entering a compact with French and German interests. From Berlin the report is that the attitude of the British interests is delaying action. The London office cables that it can obtain no indication as to the intention of the British interests. It is generally believed, however, that the British government is still reluctant to sanction membership of the British chemical industry in an international combine.

These reports and similar words circulated from private sources are taken by the Chemical Division of the Bureau of Foreign and Domestic Commerce, not as an indication that its foreign reporting machinery is at fault, but rather as proof that efforts toward strengthening the cartel plan are being made by various interests. That the details of the international cartel plan would involve great difficulty and perhaps many setbacks was expected, and it was evident that negotiations would be of a very general nature at first and would be conducted in the strictest secrecy.

Just what nations join the cartel today or drop out tomorrow, or the terms of the agreement signed, are only passing details in the light of the whole cartel movement in Europe, in the opinion of officials here. The important fact is that the movement for international industrial co-operation is actually going on, and they

point to the prevalence of rumors and the diverse reports as evidence that active negotiations are now under way, which in some form or other will eventually accomplish the desired end.

CHANDLER MEDAL AWARDED TO GOMBERG

"Free Radicles in Chemistry—Past and Present" was the title of the lecture delivered by Prof. Moses Gomberg, head of the Chemistry Department, University of Michigan, on the occasion of his being presented with the Chandler Medal on Friday evening Dec. 16, at Havermeyer Hall, Columbia University, New York.

The Chandler Medal provided by the Charles F. Chandler Foundation and awarded annually by Columbia University in recognition of achievement in chemical science was established in 1910 and has previously been awarded to Leo H. Baekland, W. F. Hillebrand, F. Gowland Hopkins, Edgar F. Smith, Robert E. Swain, E. C. Kendall and S. W. Parr.

In his attempt to prepare certain organic compounds, Dr. Gomberg discovered, about 1900, a very interesting chemical behavior of the element carbon. In endeavoring to account for this property he suggested the idea tri-carbon and the existence of free organic radicals. To the organic chemist his announcements were revolutionary and served to stimulate research probably more than anything else since Kekule proposed his atomic linkage idea and benzene theory. The influence of Dr. Gomberg's researches and ideas is now easily recognized in many of our current theories in chemistry.

Celanese Corp. of America, near Cumberland, Md., has plans in progress for the erection of additional buildings at its rayon mill, to be two and three-story, reported to cost in excess of \$1,000,000, with machinery. It is purposed to ask bids on general contract in about 30 days.

National Ammonia Co., 3600 North Broadway, St. Louis, Mo., plans the erection of a new one-story addition, 75 x 150 ft., including improvements and alterations in the present plant. The entire project will cost approximately \$45,000.

Report Of Vast Texas Potash Beds Is Confirmed

Director of Economic Geology Authority For Statement That Supply Will Last 250 Years—Government Aid No Longer Needed—Beds Situated Near Well Founded City—Facilities For Extraction Are Good.

Potash research in Texas has reached the point where it is definitely known that in Midland County, there is sufficient quantity in sight to meet the demands of the United States at its present consumption for 250 years according to Dr. E. H. Sellards, Austin, director, Bureau of Economic Geology, This statement was concurred with by Dr. E. P. Schoch, director of the Industrial Chemistry Experiment Station of the University of Texas. Dr. Sellards has devoted much time during the last several years to potash investigations, both in Germany and Texas. discovery of commercial beds of potash in Midland County is so pronounced that financial aid for further research on the part of the federal government is not needed. Drs. Sellards and Schoch insist. In fact, they think any Congressional appropriation for potash investigation will tend to discourage development of operations by private capital. The joint statement of Sellards and Schoch savs:

"Mineable potash sufficient to meet the demands of the United States at its present consumption for the next 250 years is found in Midland County, Texas.

"The first mineable layer of potash minerals was found in West Texas and the New Mexico areas in April, 1926, when drill cores produced by the Standard Potash Co. of Dallas revealed a five-foot bed of practically pure polyhalite at a depth of 2,075 to 2,080 feet in the western part of Midland County. Later a second well was drilled about three miles farther west and cores showed an 11-foot layer of the mineral composed of 60% soluble salts containing 10% potassium oxide at a depth of 1,980 to 1,991 feet and a three-foot layer of pure polyhalite at a depth of 2,172 to 2,175 feet. The latter layer corresponds to the five-foot layer of polyhalite in the first well. Further drillings in the second well revealed another three foot layer of the mineral and a 13-foot layer composed on an average of one-third of polyhalite and two-thirds salt.

"These deposits naturally will be mined like coal. The depths of the layers, which are from 1,900 to 2,300 feet, are within the range of the depth in Europe which is from 1,000 to 3,000 feet. "The refining of the West Texas minerals presents many

new problems but our work has progressed far enough to say that no great obstacles are likely to present themselves. The products-sulfates of potassium, sodium and magnesium -have a different market value from the chlorides. With an oil field within a few miles and the fact that solar evaporation is easily carried out in a dry and rarified atmosphere of the Texas high plains, it is seen that the cost of production should be moderate. The industry will be helped also by the fact that the oil industry has developed the nearby city of Odessa into a large town so that power, supplies and labor may be readily and cheaply obtained there. For all these reasons it is likely that a successful American potash industry soon may be a reality. amount of potash 'in sight' may be said to be that underlying a strip three miles by six miles long. Within the soluble layer this strip contains 23,000,000 tons of potassium oxide, and in the polyhalite layers about 34,-000,000 tons. At present the United States consumption is 250,000 tons of potassium oxide per annum."

P. W. Drackett, founder and director, Drackett Chemical Co., Cincinnati, and a former director of the Chamber of Commerce, died at his residence in Los Angeles, Calif., last week. He had been in ill health for some time. Mr. Drackett established the business that bears his name in 1911, after long connections with two Cincinnati retail drug companies, and was its president for ten years or more. His widow, Mrs. Sally Bolten Drackett, was with him when he died. In addition, he is survived by two sons, a brother and two sisters.

Laurentide Co., Toronto, has taken an option on the main limits of the E. B. Eddy Co., which will round out the former's recently acquired holdings in the Ottawa Valley. This transaction virtually marks completion of the disposal of the Eddy Co., which recently sold its match plant to the International Match Corp.

Washington, D. C., Dec. 21—Federal Products Co. has been awarded the contract by the Navy Department for furnishing 450,000 pounds of Grade B alcohol for smokeless powder at \$19,300 bids for which were received on December 13.

JAPAN CHEMICAL TRADE ASKS GOVERNMENT AID

(Special to CHEMICAL MARKETS)

Tokyo, December 1-Japan Chemical Industry Association, the largest organization of the kind in Japan, has decided to start a movement to urge the Government authorities to adopt positive measures on the promotion of chemical indutsry. In conformity with a resolution approved by its mass meeting, representatives of this association, headed by Dr. Toyokichi Takamatsu, have paid a round of call on Cabinet Ministers to ask for their efforts for the submission of bills regarding the protection of chemical industry to the next session of the Imperial Diet. The bills drafted by the association include the development of the nitrogen industry, the promotion of the soda ash industry, the protection and encouragement of the synthetic chemical industry, the improvement of the leather and hide industry, the establishment of a permanent oil policy, and the protection of dyes with special reference to artificial indigo.

Foster-Grant Co., Leominister, Mass., plans the erection of an addition to its celluloid goods factory, to be one-story, estimated to cost \$40,000, with machinery.

Linseed Association, New York, held its sixtieth annual meeting and dinner in New York last week. E. J. Cornish, president, National Lead Co., H. G. O. Dunham, and B. A. Levett addressed the meeting which was attended by thirty-three members and guests. The following officers were re-elected: George W. Fortmeyer, president; H. G. O. Dunham and F. A. Marsh, vice-presidents; and Thomas J. Hastings, secretary-treasurer.

Montreal, Que.—Immediately after the annual meeting of Canadian Industrial Alcohol, Ltd., on Dec. 20, a special meeting will be held to pass a resolution annulling the voting power of a block of unissued stock, thus concentrating the voting strength in the outstanding shares. This latter stock, amounting to about 500,000 shares, if ever issued, will be without voting power.

Geo. K. Eastman, pres., Eastman Kodak Co., Rochester, sailed Dec. 15 on the "Berengaria" on the first leg of an African hunting trip. He was accompanied by Mr. and Mrs. Martin Johnson, naturalists and hunters.

Wadsworth-Howland Co., Chicago, has changed its name to the Jewel Paint & Varnish Co.

NEW ENGLAND DYESTUFF BUSINESS DECREASING

In view of the fact that the principal products of the dyestuffs industry in New England are dyestuffs, gums, dextrines, and sizing for textiles, including household dyes, and because the conditions in the textile industry have been so unfavorable, and since changes in the nature of the demand have caused decreases in the sales during the past few years, two-thirds of the dyestuffs establishments in New England, which reported in the recent survey conducted by the United States Department of Commerce, in co-operation with the New England Council, reported lessened sales. Total sales in 1925, however, were 5 per cent greater than those in 1921, and where increases have been reported it has been due mostly to lower production costs and extension of territories.

Of the plants in the New England section the average age is 28 years and only one company, formerly a paint concern, has changed from its original use. The principal reasons for locating in New England and remaining there have been the proximity of the market, the availability of the raw materials and the transportation facilities.

NITRATE OF SODA RULING

(Special to CHEMICAL MARKETS)

Washington, D. C., Dec. 21—The rate on nitrate of soda, in carloads, from New York Harbor, N. Y. to White Haven, Pa., has not been found unreasonable, unjustly discriminatory or unduly preferential and prejudicial by the Interstate Commerce Commission in a decision in the case of the Peerless Explosives Co. against the Central Railroad of New Jersey. The complaint has been dismissed.

Colgate & Co., Jersey City, filed suit in the Federal Court in Brooklyn last week alleging infringement by the Procter & Gamble Co., Cincinnati, of a patent for producing soap in bead form, which the complainant uses under exclusive licenses from the Industrial Spray Drying Corp. and the Spray Dryer Process Corp.

Irenee du Pont recently gave \$45,-000 to make possible extensive research in cancer at the hospitals and laboratories of the University of Pennsylvania.

Hercules Powder Co. has announced that naval stores production at its Brunswick, Ga., plant will be reduced twenty per cent.

C. H. DICKINSON RESIGNS

Chas. H. Dickinson has severed his connections with Dickinson, Renouf & Co., New York. Mr. Dickinson has not announced what his plans for the future will be. The company will continue to operate under the present title, pending application for change



Chas. H. Dickinson

of corporate name, notice of which will be given to the trade in due course.

JAPANESE DYE MAKER ASKS NEW SUBSIDY

(Special to CHEMICAL MARKETS)
Tokyo, Japan, Nov. 21—The Nip-

pon Senryo Kaisha (Japan Dyestuff Company), Osaka, has newly manufactured four kinds of dyes, Victoria Blue, Direct Brown M, Ponceau, and Direct Fast Black. Petition has been presented to the Ministry of Commerce and Industry by the company asking for the subsidy fixed by the Government. It is expected the matter will be sanctioned soon. The annual demand for Victoria Blue is estimated at 15,000 kin, that for Direct Brown M 2,000 kin, that for Ponceau 100,000 kin and that for Direct Fast Black 40,000 kin. Out of 27 most important dyes in Japan, 12 have been completely manufactured here.

According to the official statistics of Greece, imports of ammonium sulfate during 1926 amounted to 10,070 kilos entering through the port of Patras. The total amount of fertilizers imported by Greece during the that year was 9,639 metric tons as compared with 42,408 metric tons during 1925.

Harold W. Frevert is now chemist at Holland Tunnel for the New York and New Jersey Bridge and Tunnel Commissions.

Estate of the late Henry K. Goetchius announces a bequest of \$50,000 to Yale University.

ACID PHOSPHATE NAME CHANGE MEETS APPROVAL

Washington, D. C., Dec. 19—General approval of changing the name of "acid phosphate" to "superphosphate" with the old name to be carried in parentheses during the transition has been given by editors of farm papers, agronomists, experiment station directors and others in letters to Charles J. Brand, executive secretary and treasurer of the National Fertilizer association, who recently requested the cooperation of all agricultural workers and fertilizer manufacturers to make the change.

Mr. Brand explains that many farmers, especially in "pioneer" territory where commercial fertilizers are just beginning to be used, have a natural, inherent fear of all things acid, which makes them hesitate to use this material because they think it is acid.

NEW MUSCLE SHOALS BILL

(Special to CHEMICAL MARKETS)

Washington, D. C., Dec. 21—Senator Norris, Nebraska, has introduced a bill in the Upper House "providing for the complettion of Dam Numbered 2 and the stream plant at the nitrate numbered 2 in the vicinity of Muscle Shoals for the manufacture and distribution of fertilizer and for other purposes." The bill has been referred to the Senate Committee of Agriculture and Forestry.

Application of Charles Bogin for patent on an improvement in nitrocellulose lacquer compositions was recently rejected because his composition comprised among other ingredients "a nitrocellulose solvent boiling below 100 degrees". Only one solvent of this type, acetone, was disclosed and his claim rejected as being broader than the invention.

C. E. Adams, president, Air Reduction Co. and chairman of the board, U. S. Industrial Alcohol Corp., when questioned on the rumor that the two corporations were about to consolidate said: "There is nothing of the kind in prospect at present," reports "Wall St. Journal."

National Paint, Oil & Varnish Association and the American Paint & Varnish Manufacturers' Association have decided to hold their 1928 conventions in Detroit the week of Oct. 15.

Dr. Russell Heuer, University of Pennsylvania, addressed the Philadelphia section, American Chemical Society, on the subject of "Refractories" at its meeting last week.

ALCOHOL OUTPUT HELD TO 40 PER CENT BY JULY 1

For the purpose of rendering effective provisions of treasury decision No. 13, which fixed the limits of 1928 alcohol production, prohibition administrators will in each case where renewal permit is or has been issued notify the proprietor of the plant concerned that the production at such plant for the first six months of the calendar year 1928 must not exceed 40 per cent of the quantity of alcohol authorized to be produced at the plant during the entire year, according to a recent announcement made by Dr. J. M. Doran, Commissioner of Prohibition. Proprietors of alcohol plants should also be notified that in any case where the quantity of alcohol carried over from the year 1927 to the year 1928 exceeds 10 per cent of the quantity authorized to be produced at the plant during 1928, such excess over 10 per cent shall be deducted from the allotment for the year. For example, if the quantity carried over equals 15 per cent of the allotment for the year, 5 per cent of such allotment shall be deducted, and the authorized production for the calendar year 1928 reduced accordingly. In determining the quantity carried forward in any case there should be included (1) all ethyl alcohol held in the industrial alcohol plant and in any bonded warehouse or denaturing plant conducted or operated by the proprietor of the alcohol plant concerned, whether such warehouse or denaturing plant is operated at the same location as the alcohol plant or elsewhere, and whether the ethyl alcohol so held was produced by the proprietor of the alcohol plant or procured by him and transferred to such warehouse or denaturing plant in bond, and (2) all denatured alcohol, wherever located. owned, possessed or controlled by the proprietor of the alcohol plant.

In addition to forms 1488, 1443A and 1443B, showing all alcohol stored in industrial alcohol plants and bonded warehouses, and forms 1468A, 1468B and 1478, covering all alcohol and denatured alcohol held in denaturing plants and bonded storerooms, there must be filed by the proprietor of each industrial alcohol plant with the administrator of the district in which the plant is situated, for transmission to the commissioner, on or before January 10, 1928, a sworn statement showing all denatured alcohol not held in a bonded denaturing plant or storeroom, but owned, possessed or controlled elsewhere

by said proprietor.

Nock Chemical Laboratory, Inc., Pittsburgh, Pa., plans the early operation of a new plant at Pittsburgh.

SWEDISH SULFATE FUTURE

Better prospects appear in the Swedish sulfate industry, as indicated by new mills under construction and considerable extensions being made to old ones, according to a report from Consul General John Ball Osborne, Stockholm.

The largest of these new mills, at Marma, will have an annual capacity of 40,000 metric tons and will be ready to start production in the spring of 1929. Two other saw mill companies taking over the production of sulfate pulp are Sandvikens Sagverks A/B and Munksunds A/B. The former, which has already altered its name to Sandvikens Cellulose A/B to indicate its changed activities, has under construction a mill with an annual capacity of 15,000 tons. The site of the new mill is on the Angerman River, near Kramfors, and operations are expected to begin in the spirng of 1928.

The company owns about 160,000 acres of forests, from which it will obtain all the timber required for its pulp production. Munksunds A/B, a sawmilling corporation with 1,000,000 crowns (\$268,000) of capital stocks has recently taken over the greater part of the mills and forests owned by A/B Yttersfors-Munksund, which has gone into liquidation. The capacity of the new plant will be about 30,000 tons of pulp annually.

Another sulfate mill is being built at Olshammar, near Askersund, but the production of this plant is intended only for the manufacture of paper by the domestic mills and not for exportation.

The discovery of large sulfur deposits in Asia Minor has been reported to French bankers. If the deposits are as large as the discoverers claim, it will revolutionize the present status of sulfur industry in this country and Italy. The French bankers have been asked to finance its development.

Value of rosin exported to Nagasaki, Japan, from the United States in 1926 was \$112,290 an increase of 45 per cent over the previous year when the value amounted to \$77,041 reports Consul Henry B. Hitchcock.

Jos. F. Peters, head of Buhach Products & Manufacturing Co., Stockton, Cal., passed away early in December.

C. G. Dixon, vice-pres. Wm. S. Gray & Co., returned Dec. 20 on the "Majestic" after a business tour through Europe.

POLISH SULFURIC ACID PRODUCTION INCREASES

(Special to CHEMICAL MARKETS) Washington, D. C., Dec. 15—Polish production of sulfuric acid after having slumped to a monthly average of 14,561 tons in 1926, as compared with 17,900 tons in 1925 and 21,299 tons in 1913, has again risen sharply and for the first 9 months of 1927 amounted to an average of 18,050, tons per month, reports Assistant Trade Commissioner L. J. Cochrane, Warsaw.

This increase is ascribed to growing domestic demand, since exports, which were hard hit by the outbreak of the Polish-German trade dispute in June 1925, still remain at their previous unsatisfactory level. Recently the domestic sales situation was further improved by the formation of a Sulfuric Acid Syndicate composed of several leading producers.

Following the annual meeting of the board of directors of Merck & Co., Inc., manufacturing chemists, at their main offices, Rahway, N. J., the following officers and directors were elected: Chairman, board of directors, Frederic Rosengarten; president, Geo. W. Merck: treasurer, George W. Perkins; assistant treasurer, Henry Stein; vice presidents, R. E. Gruber, J. J. Kerrigan, J. G. Rosengarten, Jr.: J. Rosin; chief chemist, B. L. Murray; secretary, H. R. Neilson; assistant secretaries, P. McK. Garrison, S. W. Walker: assistant to president, J. A. Garvin.

A capitalization of \$50,000,000 is proposed for the corporation now being organized to operate a consolidation of about 150 yarn mills in five Southeastern States, according to reports from Southern cotton manufacturers.

These manufacturers quoted Frank & Co. of New York, which firm is associated with Flint & Co., also of New York, in developing this merger.

United Indigo and Chemical Co., Ltd., London, current interim ordinary share dividend was placed at a meeting last week at $2\frac{1}{2}$ per cent, unchanged.

Montreal, Que.—Industrial Chemicals, Ltd., has just been incorporated in Montreal, under Federal charter, with a capitalization of \$50,000.

Henry L. Grund Co., Cleveland, has been appointed agent for John R. Anderson & Co., shellac broker, New York.

National Association of Paint Distributors will hold its fourteenth annual convention in New York, Feb. 20-22.

The Industry's Finances

Fertilizer Security Advance Index to Conditions

Practically all Important Stocks Have Stiffened Recently—American Cyanamid Having Good Year—Proctor & Gamble Issue—Freeport Extra Dividend—Archer-Daniels-Midland May Earn Double Dividend.

Baltimore, Dec. 15.-Advances that have taken place in the stocks of Davison Chemical Co. and other fertilizer manufacturing corporations are taken as an indication not only that the industry is in a better condition but that price advances in materials and manufactured products may be looked for. In fact, the list has already stiffened to an appreciable extent, and a belief prevails that a further readjustment will come. quotations on acid phosphate are now nominally \$8.50 per ton for run of pile and \$9 for 16 per cent milled and screened stocks, and while reports are current of business having been done at \$8 per ton for run of pile, or even slightly under \$8, the fact remains that even the lowest quotation mentioned is higher than the levels that prevailed during the time of extreme unsettlement.

Earnings and business of the American Cyanamid Co. in the current fiscal year are running ahead of the same period in the fiscal year ended June 30, 1927. In the past fiscal year the company earned \$1,356,231, equal after all charges to \$3.09 a share on 329,715 common shares against \$1,652,240, or \$3.99 a share earned in 1926.

California Ink Co. has taken over the ink properties of the Paraffine Companies, Inc., San Francisco. The State Corporation permit provides for the sale of 6500 shares of California Ink, class B, to Paraffine Companies in exchange for the transfer and assignment of properties. California Ink Co. was organized in 1919 as a combine of the California Ink Co., the California Aniline & Chemical Co., and the printing and lithographic ink business of George D. Graham.

Lamotte du Pont, president, E. I. du Pont de Nemours & Co., returning from a short business trip abroad on the Berengaria last week, stated that earnings of his company in 1927 would be somewhat larger than last year.

He said also that the outlook was for a continuation of this rate of earnings, but added that the prospects were somewhat in doubt in view of the presidential year head.

Mr. du Pont observed a very much improved condition in France. People are working and appear a lot more contented than when he was there a few years ago.

Archer-Daniels-Midland Co. has prospects of a double dividend earning of \$3.00 a share on the 200,000 shares of outstanding common stock, according to a statement in a recent issue of a New York financial paper. Where as in the last several years linseed oil companies have often suffered through fluctuations in price levels in the past year have improved according to the companies.

McAndrews & Forbes has declared an extra dividend of 90c a share on the common and the regular quarterly dividends of 65c a share on the common stock and \$1.50 a share on the preferred stock, all payable Jan. 14 to record of Dec. 31.

Freeport Texas Co. declared an extra dividend of 75 cents and the regular quarterly dividend of \$1, both payable February 1 to stock of record January 4. Previously the company had been paying extra dividends of 50 should be much better than 1927."

Devoe & Reynolds Co., New York, has changed the stock of record date on the dividends on the Class A common and first preferred stocks to Dec. 21.

A year ago Freeport Texas was paying nothing to shareholders, says "Wall St. Journal". Recently it declared the regular quarterly dividend of \$1 and an extra of 75 cents a share. Last year the stock sold below \$20 a share. It is now up 400% from that level.

Early this year when Freeport was quoted in the 30s there was heavy short selling, and much of this came from persons who should know something about the sulfur industry. When the stock crossed 50 there was no more selling and considerable buying by some who sold short lower down. There has been selling all the way up to its present price and few shorts have had a chance to get out at a profit.

The statement of Freeport for the current year will be interesting, but balance sheets of following years will be even more interesting. Freeport has fooled many who, early in the year, predicted dividends even lower than now being paid would be impossible.

Procter & Gamble will issue \$6,689,800 of its 6 per cent cumulative preferred stock to purchase the William Waltke Co. soap manufacturers of St. Louis, according to St. Louis advices. The Waltke Co. has \$1,500,000 of 7 per cent preferred and 100,000 no par shares outstanding. The preferred will receive \$110 and dividends.

Procter & Gamble recently called for cancellation \$9,931,000 of the preferred stock outstanding from an authorized issue of \$45,750,000.

At the January meeting of the board of directors of Davison Chemical Co., Baltimore, two officials of the Pyrites Company of America will be elected members, the two being the Earl of Denbigh and A. D. Ledoux. Pyrites Company is the American subsidiary of the Rio Tinto Co., Ltd., London.

Roessler and Hasslacher Chem. Co., New York, has increased its capital from 60,000 shares to 210,000 shares of which 60,000 shares are preferred and 150,000 common with no par value.

British Celanese has sold the unissued balance of £500,000 7½% convertible second mortgage bonds and has also made a private issue of 350,000 shares of common stock.

U. S. Industrial Alcohol Co., has announced regular quarterly dividend of 134 per cent on preferred capital stock, payable Jan. 16, to stock of record Dec. 31, 1927.

Foreign Exchange

		Par	Carrent
Great Britain (pound sterling)		4.866	4.871
France (franc)		.193	.039
Italy (lira)		.193	.054
Belgium (frane)		.198	.140
Czechoslovakia (crown) per 1	.00	20.30	2.96
Denmark (krone)		.268	.268
Germany (mark)		.238	.239
Helland (florin)		.402	
Palond (zioty)		.193	.113
Norway (krone)		.258	.266
Spain (peseta)		.193	.167
Sweden (krone)		.268	.270
Switzerland (frane)		.193	.193
Argentina (peso)		.414	.427
Brazil (milreis)		.324	
Japan (yen)		.499	
india (rupee)		.485	
China (Silver dollar, Hongko		.789	
(Tael—Peking, silver)		1.146	
(Tael-Shanghal, silver)	0 0	1.986	.641

Stocks & Bonds

	1926		1927		Curr	ent
	High	Low	High	Low	Bid	Asked
*Air Reduction	14634	1071/2	1991/8	1341/2	1871/2	189
*Allied Chem	148 %	106	1691/4	131	1521/4	152 1/2
*Allied Chem pfd *Allied Ag Chem	12234 3434	118%	1241/2	120 81/8	121½ 16¾	1221/2
*Am. Ag. Chem. pfd	961/2	35 %	62	281/4	61%	62
Anaconda	51 7/8	411/2	55	411/4	54 1/8	55
*Am. Cyan "A" *Am. Cyan "B"	46	36 1/8 35 1/4	401/2	25 29	40 38 %	40 1/2
*Am. Linseed	52 1/8	25 5/8	701/2	201/4	65 1/2	66
*Am. Linseed pfd	87	6834	911/2	4634	86	87
Am. Metals *Am. Metals pfd	57%	421/4	4634 11736	38	45¾ 112¼	46 117%
*Am. Metals pfd	120 35¾	113½ 29¾	16	31/2	131/4	14
*Am. Smelting	152	1095%	1801/2	132 %	175 1/4	1751/2
*Am. Smelting pfd	1223/4	1127/5	13234	11934	1281/2	129
Am. Zinc *Am. Zinc pfd	$12\frac{1}{2}$ $54\frac{1}{2}$	5 ½ 20	10 1/4 51 1/4	5 1/4 29	7 1/2 42	7 1/8
Anglo Chil. Nitrate	01,2		311/2	14	26	271/2
*Archer-Dan-Mid	34 1/8	36	61	38	60	601/4
*Archer-Dan-Mid., pfd *Atlas Powder	108 64	100 54	113 65 1/8	106 56½	113 62	63
*Atlas Powder pfd	97%	96	107	98	103 1/4	104 1/2
Butte Lead & Copper	614	4	51/8	3 3/4	4 %	41/2
Butte & Sup. Copper	161/4	71/8	11 3/4 92 1/2	7 3/4 66	10 1/2 71 1/4	11 72
*By-Products Coke 2	93	53	115	105	109	112
*Calla L & Z	2 5%	1 1/2	2 5/8	1 1/4	1 %	178
Canad. Ind	20	161/4	42 115	14 105	38 105	38 115
Canad. Salt	145	131	191	149	155	165
Calumet & Hecla	181/2	13 %	23	141/4	221/2	23
Celluloid Corp	26	16	1211/2	16 63	107 86¾	116 87
Celluloid Corp., pfd Cert. Prod. 1st pfd	8 106¼	55 100	110 118¾	106	115	11834
*Certainteed Prod	491/2	361/2	55%	42	55	551/4
Charcoal Iron	33 1/2	24	40	8	36	40
Chesebro Mfg Co	73 36 %	65 30	123 391/4	73 33 1/4	117 38%	120 38%
Cleve Cliff Iron	75	69 1/2	1061/4	86	106	1061/4
*Columb. Carbon	70%	55%	100 203	66 % 160	95 1671/4	951/2
*Com. Sol	5136	35%	66 %	46 1/8	64	64 1/2
*Corn Prod. pfd	1301/4	1221/2	140	128	1371/2	139
*Davison Chem	46%	271/2	411/2	26 1/2 43	41 43 1/4	411/2
*Davison Chem., pfd	104 1/4	31	42 %	361/2	40	42
*Devoe & Rayn 1st pfd	105	40	113	101	109 %	111
*Dow Chem. *DuPont deb.	100 1101/4	74 100%	108 115%	98¾ 105¼	108 117	108 118
*DuPont de Nem.	1811/4	157	343 %	168	3161/2	317
*Eastman Kodak	136%	106 %	175 1/2	1261/4	167	168
Eastman Kodak pfd* *Freeport Texas	136 % 36	106 % 19 %	175¼ 104¾	126 1/4 36	128 1/4 104 3/8	130 104 %
*Gen. Asphalt	941/4	50	96 3/4	72 1/2	771/9	781/2
•Gen. Asphalt pfd	130	94 %	114 %	113	118½ 74½	123½ 96
*Glidden pfd		***	100 100	84 84	95 1/2	96
*Gold Dust	561/2	411/2	69 3/4	42	74 1/2	75
Grasselli	145	120 102	135 108%	125 100	135 107	135 108 %
Grasselli, pfd	103 1/2 115	110	122	115	1181/2	121
*Household Prod	48%	40	67	431/4	65	64
Industrial Rayon	19 7/8 26 1/4	9 1/8	19 % 15	61/8	171/4	18% 15
International Agr *Int'l. Agr. pfd	95	57	65	33	62	63
International Nickel pfd		*****	110	103 %	110	***
Int'l. Salt* *Mathieson Alk.	84 1/8 106 1/8	61 1/2	72 128	64 1/2 82	126	70 127
*Mathieson Alk nfd	105	100	120	103	1171/9	120
Merck & Co., pfd	73	50 1/2	86	65	73	76
Merrimac Miami Copper	83 17%	72 11	88 19	73 13 1/8	75 18 1/8	. 84 19
*Nat'l. Dist.	34	121/2	54	17	76	53
*Nat'l Dist nfd	731/2	57	69%	431/2	62	62 1/2
*Nat'l. Lead *Nat'l. Lead pfd. "A"	181 120	138 116	200 140	118	129 136 1/2	130 1/8 140
Nat'l. Lead pfd. "B"	120		116	104 %	1151/2	116
Nat'l. Lead pfd. "B" N. J. Zinc	2141/2	180	206	177	187	187%
Penick & Ford	24 91	16 % 71	27 % 105	191/2 74	27 % 98	23 98
Proc. & Gam	163	1421/2	244	157	236	240
Royal Bak. Pdr	213	190	270	161	250 106	265 106
Royal Bak. Pdr., pfd *Sherwin-William	105½ 108	102 108 1/4	108 110	99 60	70	70
*St. Joseph Lead	481/2	36%	42	36	41	42
Silica Gel	223/4	111/8	19%	131/8	19	19% 19
Swan & Finch* *Swift & Co	110	110	30 128	191/2	18 124 %	125
*Tenn. C. & C	16	10 1/4	131/4	81/8	11	111/8
Texas Gulf & Sulfur	52%	39	81%	49 98%	76% 147%	77 1481/2
*nion Carbide	100%	78	1501/2	31/4	6	7
Un. Gas Imp	1441/2	841/8	114	106	1131/4	114
*U. S. Gypsum	166 84 1/2	126 45%	110 110%	90¼ 69	86 110	86% 130
*U. S. Ind. Al *U. S. Ind. Al. pfd	114 %	901/4	130	1071/4	120	130
Va. Car. Chem. Com. 6% pfd	69	31%	46%	26 1/8	461/4	46% 90
Va. Car. Chem. Com. 7% pfd	981/8	83	90	73	89	90

COMMERCIAL SOLVENTS PROSPECTS ARE BRIGHT

Orders booked by Commercial Solvents Corp. in the last few weeks have shown a substantial improvement, indicating return of a normal volume of business, and the outlook is bright for a good year in 1928, says "Wall St. Journal." Early this fall the normal slowing down in the automobile industry, coupled with a slight hesitation in business generally, caused a sharp falling off in Solvents' orders.

At that time the old plant at Terre Haute, containing 52 fermenters was closed down for renovation and to allow the last year substantial additions were made to the main plant at Peoria which increased output of the company by around 40%. The Peoria plant recently added 16 fermenters, making the total there

While profits this year probably will be somewhat disappointing due to the slowing down of sales in the last part of the year, the management is looking forward to a big business in 1928 and has laid plans accordingly.

In the first nine months of this year net profits was \$1,651,503, equal to \$7.58 a schare on the 217,-722 shares of capital stock. Net in the first half was \$1,215,022, equal to nearly \$6 a share, or at the rate of \$3 per quarter, but net in the third quarter was equal to only \$2 a share, while the showing for the fourth quarter no doubt will be somewhat less. Thus the final net for 1927 probably will be under \$10 a share. This would compare with \$1,707,791 earned in 1926, equal to \$14.58 a share on the 108,861 shares of old Class B stock, after preferred and Class A dividends, or to about \$7 a share on present capitalization.

These earnings are after substantial reserves, considerably larger than needed to cover depreciation charges or taxes. This no doubt is partly responsible for the high price of the stock in relation to its indicated earning power. Like all chemical companies, Solvents is entitled to charge off an unusually large proportion of earnings on account of the rapid changes which frequently occur in the industry.

Production now includes four important products. Of these, butanol is the most important, with an output of 14,000,000 pounds quarterly when the plant is running full. The next most important product is acetone, a by-product with a wide variety of industrial uses of which one of the most important is in the rayon industry. Nearly 30,000,000 pounds a year are produced.

Industrial Chemicals

Domestic White Sal Ammoniac Reduced 10c

Producers Announce Reduction Following Strong Imported Competition— Tartaric Acid Easy—Glycerin Quiet—Copper Sulfate and Mercury Strong—Contract Business, Particularly on Alkalies Very Brisk—Tin Salts Unchanged.

> Advanced No advances

Ammonium Chloride, white, dom, 10c 100 lbs

Trend of the Market

	Teday	Two Weeks Ago	Last Month	Last Year	War Peak	Pre-Wa.
Acetic Acid, Glacial, c-l To.	.11%	.11%	.11%	.11%	.191/2	
Sulfuric Acid, Tanks 66 deg. ten	15.00	15.00	15.00	15.00	55.00	20.00
Amm. Sulfate c-1 NY 100 lbs.	2.40	2.40	2.40	2.50	7.50	2.65
Bleaching Powder, e-l .100 Ds.	2.00	2.00	2.00	2.00	9.50	1.50
Copper Sulfate e-l NY 100lhs.	5.00	5.00	5.00	4.75	20.00	4.60
Potash Caustie e-l Imp Ib.	.07%	07%	.0716	.0716	.87	.08
Soda Ash, 58 p.e. e-1100 lbs.	1.94	1.94	1.94	1.94	3.50	.60
Caustle Soda 76 p.e. e-1 100 Dz.	3.66	3.66	3.66	3.66	9.50	1.42
Potassium Bichiomate D.	.081/4	.0834	.08 1/4	.08 1/4	4.65	.06
Sodium Prussiate b.	.12	.12	.12	.11	1.25	.18
Average	3.046	3.046	3.046	3.012	10.79	2.99

Current Quotations and Comments on Specific Items, Pages 906-910

A voluntary reduction in the price of white ammonium chloride late last week by the domestic producers was the principal item of interest in the industrial chemical field over the past week. No reason was given for the decline but imported competition for what business there is, is undoubtedly a large contributing factor. A weakness was also noted in the spot price of imported tartaric acid and the market continues easy and quiet following the reduction of last week.

Otherwise conditions in general are unchanged. The alkali and acid manufacturers report a healthy volume of business for 1928 in practically all their products. Manufacturers of copper sulfate are refusing to book orders more than sixty days ahead and are experiencing even a better volume of sale than was the case last year at this time. Tin salts are in average demand and unchanged as to price. Glycerin is still neglected and while no sales of dynamite have been reported on which to base the market, shading of the openly quoted price is still believed possible.

Mercury continues in fairly good demand with the price unchanged and the market firm reflecting conditions on the other side. With the holiday season practically here little if any spot business is expected to transpire until after the turn of the year. Price changes are very limited at this time and both buyers and sellers are more interested in next years requirements, with the

former holding down their stocks until after the inventory period.

The capitalization of chemical companies organized under various state laws during November, 1927, amounted to \$6,128,000 according to compilations made by the Journal of Commerce. This compilation compares with \$2,600,000 for October, and \$1,925,000 for the corresponding month a year ago.

The chemical industry of New York State is one of the few which shows a greater payroll for November, 1927, than in November, 1926. Forty-four out of fifty-five industrial classifications had smaller forces in their employ this year during November than during November of the previous year.

BARIUM CARBONATE CASE TO TARIFF COMMISSION

(Special to CHEMICAL MARKETS)

Washington, D. C., Dec. 21—The report on barium carbonate which has been under way at the Tariff Commission has been sent to the Commission by the Advisory Board and is now in final form for approval by the Commission before being sent to the president.

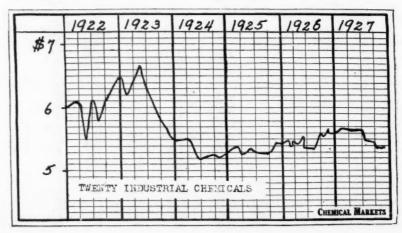
The Commission now has before it for final action, in addition to barium carbonate the report on tartaric acid and cream of tartar and also an application in connection with refined nit ate of potash.

Eaton-Clark Co., Detroit, will celebrate the 90th anniversary of the establishment of the firm by a formal opening and reception on Saturday, Jan. 7 at the company's new offices, 1490 Franklin st. These offices with additional warehouse facilities were actually completed and occupied during last August. All friends of the company who will be in Detroit at that time are invited to inspect the new offices.

Ernest L. Mathy, Pacific Coast, sales manager, Air Reduction Co., was the speaker at the last meeting of the Sales Managers' Association of California held at the Athens Athletic Club on the evening of December 6. He exhibited moving pictures showing the uses of liquid air and gave several laboratory demonstrations.

Revised Federal tax cut figures \$232,735,000 instead of \$236,000,000 formerly announced. Corporation cut will be \$176,000,000, comparing with \$166,000,000 originally estimated.

Long Beach Salt Co., Long Beach, Cal., has purchased the warehouse, machinery and equipment of the Fremont Salt Co., near Toby, Cal.



Butyl Cellosolve and Brush Lacquers

BRUSH lacquers differ from automobile lacquers chiefly in their higher gum content and slower rate of drying.

These two conditions require considerable quantities of high boiling compounds that are good gum and nitrocotton solvents. To meet this need the Carbide and Carbon Chemicals Corporation now offers *Butyl Cellosolve*.

Butyl Cellosolve (Ethylene Glycol mono butyl ether) is an oily liquid of faint, but agreeable odor, boiling at 170° C. It is a powerful solvent for nitrocotton and an excellent solvent for gums and resins. Its dilution ratio for gasoline and petroleum is unusually high. These properties make it an ideal complement to Cellosolve in the manufacture of brushing lacquers.

Brush lacquers made with Cellosolve and Butyl Cellosolve are practically odorless. The rate of drying can be varied from one-half to two hours by regulating the proportions of the two solvents, but in either case the final film will possess high gloss due to the smooth and gradual deposition of gum and nitrocotton as the Butyl Cellosolve evaporates.

Neither Cellosolve nor Butyl Cellosolve contains ester groups. Hydrolysis and the development of acidity is therefore impossible in lacquers made with these solvents, thus eliminating all difficulty such as livering, geling and corrosion insofar as solvents are concerned.

CARBIDE AND CARBON CHEMICALS CORPORATION Carbide and Carbon Building, 30 East 42nd Street, New York City



Crudes & Intermediates

Promising Outlook For Intermediates Next Year

No Visible Signs Of Price Changes To Benefit Consumer—Active Consuming Operations Tend to Strengthen Market—Spot Transaction Very Quiet—Contract Entries Practically Completed.

Advanced
No advances
Declined
No declines

	Trend of the Market						
	Today	Two Weeks Ago	Last Monti	Last Yea	r War Peak	Pre-War	
Benzene, pure tanks wksgal.	.21	.21	.21	.24	1.10	.25	
Naphthalene flake 1b.	.05	.05	.05	.05	:16	.03	
Phenol Spot	.19	.19	.17	.18	1.50	.08	
Toluene tanks wks gal.	.35	.35	.35	.35			
Aniline Oil lc-l	.15%	.15%	.15%	.15	1.40	.101/2	
Alpha-naphthylamine Ib.	.35	.35	.35	.35	1.28		
Benzaldehyde B	.70	.70	.70	.70	_	-	
Betanaphthol bbls 10.	.24	.24	.24	.24	1.50	.08	
Dimethylaniline c-l	.32	.32	.30	.32	1.30	100	
Paranitroaniline bbls Tb.	.48	.48	.48	.52	1.58	.18	
Average	0.3047	0.3047	0.302	0.310			

Current Quotations and Comments on Specific Items, Pages 906-910

The local spot market for intermediate chemicals passed through an exceedingly dull week. Activities in the consuming field have been temporarily suspended over the holiday period and in view of the consistent strength of the entire market, factors express the belief that business will return to a normal state after the turn of the year. Meanwhile, contract closings have been made with very little hesitation. Owing to spirited activities in the dyestuff industry, practically all of the agreements for next year have been completed and the outlook is very promising, indicating a firm price range for the early part of the year.

Ortho-toluidine and para-toludine possesses outstanding firmness. Openly quoted figures for contract business are the absolute lowest price obtainable. The reaction of consumers to the past strength of both items removes any possibility of an advance in price and factors believe that they will remain firm, at this figure for an indefinite period. Para-nitrotoluidine is in a similar position, Intermediate acids are also firmly priced and good movement is anticipated for the next few months. Of these, cresylic acid is outstanding, the material is in somewhat better supply but insufficient to create any weakness in its present price. As a result of increased production abroad, recent imports have been of better size and its future price is dependent upon the size of consuming operations abroad and subsequent amount

of material left for export to this country. Dry colors are moving in fair sized lots. Beta-naphthol is also moving well but some consumers are holding off until the situation in the para-nitroaniline market is clarified. Dianisidine is lower in price, resulting in increased production and cheaper costs.

Du Pont Rayon Co. last week received permission from Virginia Corporation Commission to do business in that state. The company recently acquired land near Richmond upon which it plans to erect an \$8,000,000 plant. Principal office in Virginia will be located at Petersburg, with J. Gordon Bohannan in charge.

A. E. Staley Manufacturing Co., corn products manufacturer, Decatur, Ill., will open an office in Kansas City.

UNITED STATES IMPORTS JAPANESE CREOSOTE OIL

(Special to CHEMICAL MARKETS)

Washington D. C., Dec. 21—United States imported from the Nagasaki consular district more than 426,000 gallons of creosote oil the first half of 1927, says a report from Consul Henry B. Hitchcock, Nagasaki, Japan, to the Department of Commerce. This is the first time that this commodity has appeared in the returns of this consulate.

The creosote oil is manufactured in a dyes and chemicals plant at Miike, Japan. The production at present amounts to about 4,000 metric tons a year, over and above the amount produced and used in the plant itself. Exports to the United States during the past six months, accordingly, represent nearly half of the available surplus and indicate that the United States is the chief purchaser of the output.

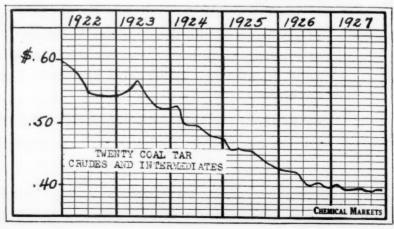
OCTOBER BENZOL IMPORTS

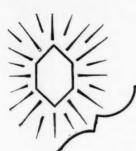
(Special to CHEMICAL MARKETS)

Washington, D. C., Dec. 21—There were 1,995,094 gallons of benzol, valued at \$440,354 exported from the United States during the month of October. During that same month 9,087 barrels of crude coal tar and coal tar pitch valued at \$30,523 and 619,845 pounds pounds of "other crude distillates" valued at \$19,115 were also exported.

A new chemical laboratory has been promised to Amherst College by Mrs. W. H. Moore, New York, as a memorial to the late William H. Moore, '71, Chicago lawyer and financier.

Net profits of Industrial Rayon Corp. and subsidiaries for November, 1927, amount to \$90,319.02, after providing for depreciation, interest and estimated Federal taxes.





Reg.U.S. Pat. Off.

ANILINE

and

NITROBENZENE

(Oil of Mirbane)

Skill acquired by the production of many millions of pounds of ANILINE and NITRO-BENZENE in the past decade is responsible for strict product—uniformity.

Diligent research by du Pont Chemical Engineers during that time has yielded such important improvements in quality as to establish new standards of PURITY.

When you purchase DU PONT ANILINE and NITROBENZENE you obtain chemicals of unsurpassed purity that does not vary from one shipment to the next. You have this assurance whether you buy in drums or in tank cars. May we submit samples for comparison?

E. I. du Pont de Nemours & Co., Inc. Dyestuffs Department, Sales Division

WILMINGTON

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Boston, Mass. 274 Franklin St.

Charlotte, N. C. 232 W. First St.

Branch Offices Chicago, Ill. 1114 Union Trust Bldg.

Philadelphia, Pa. 126 South Front St.

New York, N. Y. 8 Thomas St. Prividence, R. I. 709 Hospital Trust Bldg.

San Francisco, Cal. 569 Mission Street

[Oils and Fats]

Cottonseed Oil Makes Strong Recovery

No Declines Reported This Week As Market Shows Strong Upward Tendency—Rumored That All Tallow Sales Are Not Being Reported —Chinawood Oil Stronger at Advanced Prices—Coconut Oil Business Improved—Cod Oil More Active.

Advanced

Chinawood Oil, 1/2 c lb Coconut, Oil 1/2 c to 1/4 c lb Corn Oil 1/2 c lb Cottonseed Oil ½c lb Greases ½c lb Tallow ½c lb

Declined No dealines

	Trend of the Market					
	Today Two	Weeks Ago	Last Month	Last Year	War Peak	Pre-War
Lard No. 1gal.	.85%	.85%	.86%	.73 1/2	2.90	.92
Neatsfoot 20 deg. etgal.	1.29 1/2	1.291/2	1.33 %	1.101/4	8.45	.95
Stearic Acid T. P 1b.	.13 1/4	.13 1/4	.131/4	.151/4	.38	.12
Coconut Ceylon tanks Ib.	.08%	.08%	.08 1/8	.06 %	.40	.14
Cottonseed, crude tanks Ib.	.08%	.09	.09	.06%	.25	.08
Linseed crude c-l bblsgal.	.72	.671/2	.731/2	.81%	1.85	.57
Olive, denaturedgal.	1.35	1.40	1.50	1.38	4.60	1.05
Peanut refined	.15	.15	.15	.14%	.30	.08
Soya Beans bbls 1b.	.12 1/4	.12 1/4	.12 1/4	.12	.191/4	.07
Average	4.808	4.81	0.557	0.512	5.92	1.50

Current Quotations and Comments on Specific Items, Page 918

All members of this group seem to be biding their time until after the turn of the year. Nevertheless, the past week has witnessed the beginning of an upward movement. No declines are reported, while members of both the vegetable and animal groups have advanced in price. Opinion seems unanimous in declaring this the beginning of a strong upward market which will carry over into the early months of next year.

The tallow market is still the center of considerable discussion. Extra has advanced in price during the past week but it is still said that it is almost impossible to buy at quoted figures, purchasers of any quantity being forced to pay from %c@%c lb. above the market price. In addition, it is rumored that all sales are not being reported. Meanwhile palm oil continues unchanged in price with increased interest being shown.

Chinawood oil is recovering from the sharp decline of last week and is showing a stronger tone. Prices have already advanced and considerable interest is being shown, especially in future deliveries.

Cottonseed oil has also made extremely strong recovery since last reported and the market on last Saturday was steady at the advanced prices. Following this advance and due also to the fact that a scarcity is beginning to be felt, corn oil has also advanced in price in a firm market.

Business in coconut oil has im-

proved even in the face of somewhat higher prices. Higher prices are also reported on greases which continue firm as do the other members of the animal group. Business in Newfoundland cod oil is improved although there have been no further advances in prices.

Dr. C. M. A. Stine, chemical director, E. I. du Pont de Nemours & Co., was the speaker at a meeting of the Paint and Varnish Superintendent's Club of the Philadelphia district last week. The meeting, preceded by a dinner, was presided over by J. E. Fauser, president of the club.

Edward C. Haines, formerly with E. I. Du Pont de Nemours & Co., is now connected with George D. Wetherill & Co.

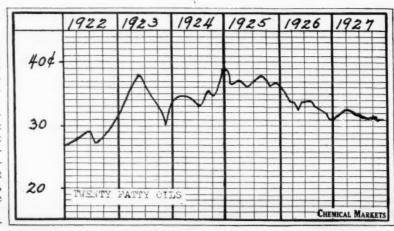
STEARIC ACID RULING

"Stearic acid" composed of palm oil, cocoa butter, mutton tallow, bone and hog fat having a low melting point and a high iodine value, and which does not crystallize in needle points, is not stearic acid of commerce and is dutiable as "all other acids — —not specially provided for" under paragraph 1 of the 1922 tariff act, at the rate of 25 per cent ad valorum. This ruling has just been handed down by U. S. Customs Court in the case of Lamont, Corliss Co., who had claimed duty at only 1½c per pound.

The demand for sulfuric acid in the Baltimore district is quite active, with the requirements exceeding production, in certain instances, so that some of the users of acid are who are also producers, are placing business with other acid plants. The current quotations are declared to be firm at \$10.50 per ton for 60% brimstone acid and with 66% degree stocks at \$16. These prices, according to report, have been agreed upon at a meeting of the manufacturers held in Philadelphia recently, with some large orders expected on the market next spring, pointing to a considerable shortage.

An order has been issued in circuit court here restraining a former employee of William Waltke and Co. recently absorbed by Procter and Gamble, from selling a secret process for making laundry soap to a rival concern. It is alleged the employee threatened to sell the process to a rival concern for \$150,000 unless paid \$75,000 by Procter.

The Navy Department received bids on December 20 for 250 tons of sulfur for delivery at the Indian Head, Md., powder factory.



Solvents

Butanol [Normal butyl alcohol]

Used in all good lacquers.

Excellent solvent for gums, oils and resins.

Basic material for many valuable organic compounds.

Dibutyl Phthalate

The plasticizer for lacquers.

Butalyde

[Normal butyl aldehyde]

Anti-oxidant.

Increases the life of rubber.

Accelerates vulcanization.

Acetone, C. P.

Universal solvent (no residual odor). Base for synthetic resins.

Diacetone-Alcohol

High-boiling solvent in brush lacquers.

Denatured Alcohol

COMMERCIAL SOLVENTS CORPORATION

Sales Offices:

17 East 42nd Street NEW YORK, N. Y. Aldwych House Aldwych, W. C. 2 LONDON, ENGLAND Terre Haute INDIANA

Plants-Terre Haute, Ind., and Peoria, Ill.





[Agricultural Chemicals]

Fertilizer Chemicals Retain Quiet Position

Consumers Display Dull Attitude—Sellers Of Foreign Tankage Reduce Price—Otherwise Prices Unchanged—Resellers of Ammonium Sulfate Hold Market Strongly—Sodium Nitrate Buying Poor—Winter Prices of Potash Salts Basically Unchanged But Discounts Abolished.

> Advanced No advances Declined South American Tankage 5c unit

	Tres	ed of the Mark	tet			
	Today	Two Weeks Ago	Last Mon	th Last Ye	ar War Peak	Pre-War
Acid Sulfuric 66°ton	\$15.00	\$15.00	\$15.00	\$15.00	\$55.00	\$20.00
Amm. Sulfate100 lbs.	2.35	2.35	2.35	2.50	1.75	2.65
Arsenic	4.00	4.00	4.00	3.50	18.00	4.00
Copper Sulfate c-l 100 lbs.	5.00	5.00	5.00	4.75	20.00	4.60
Paris Green	.19	.19	.19	.19	.50	.11
Potash Muriate 80%ton	36.40	36.40	36.40	36.40		
Potash Sulfate 90%ton	47.30	47.30	47.30	47.30	440.00	48.07
Phosphate Acid 16%ton	9.00	9.00	9.00	10.00	11.00	3.00
Phosphate Rock 68%ton	3.00	3.00	3.00	3.00	2.65	3.00
Sodium Nitrate100 lbs.	2.40	2.40	2.40	2.60	5.00	1.90
Average	12.464	12.464	12.464	12.524	10.350	13.84

Current Quotations and Comments on Specific Items, Page 914

The markets for the entire line of insecticidal and agricultural chemicals is totally devoid of consumer interest. The usual dullness witnessed between seasons and the pre-holiday atmosphere are both allied in creating this condition and the past week has been less active than for some time past. The only actual price change for the week was revealed in the asking quotations for South American tankage. Last week's quotations failed to produce any sizable amount of business and suppliers lowered their prices. Despite the shortage of materials, domestic sellers can still undersell foreign goods but the market is quiet at all points and no large sales have been made.

Resellers of ammonium sulfate maintained the quoted prices of last week and even higher prices are not unlikely as the large producers are said to be committed for their entire production. With the turn of the year, buyers who are not covered for their supply will probably manifest a good deal of interest and possibly force the re-sale market higher. Sodium nitrate is in an unchanged position, consumers are not evidencing any inclination to buy but sellers are equally firm in their inclination to maintain current prices. It is very speculative as to what the market will do after the passing of the holiday period, but further strength is indicated when the normal amount of interest is revived. Dried blood is practically dormant on spot, a very limited amount of sales have been made and current prices represent offerings only. Cyanamide, bone meal, phosphates and nitrogeous material are all in a quiet position but prices are holding rigidly and without exception. Prices for insecticides for next year have not yet been announced but are expected momentarily. The German potash agency has released prices of potash salts effective until April 30th, 1928. Basic prices remain the same but the usual discounts granted, have been discontinued. Discounts will again probably be allowed on purchases applying on the Summer schedule.

Commercial Chemical Co.. Philadelphia, has taken out a Delaware charter to engage in the chemical, paint and oil business. It has been authorized to have a capital stock of \$20,400.

AIRPLANES TO BE USED FOR WEEVIL DUSTING

Four aeroplanes owned by the Department of Agriculture, supplemented by private planes and other machines, will be used this season in the cotton belt to check the ravages of the boll weevil, Secretary Jardine announced.

Experimentation in killing off the weevil has been successful and new contrivances have been used to control the pests, the Secretary said.

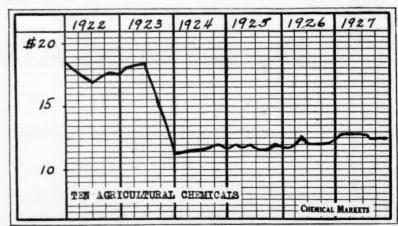
In a report released by the Department on Nov. 28 by L. O. Howward, chief of the Bureau of Entomology, concerning investigations and control of cotton insects by B. R. Coad, the statement is made:

"After some further refinements, a daylight dusting machine will be available which can be used with a wind velocity of probably not over 10 miles per hour. Sufficient progress has now been made in the equipment for delivering dust so that this can be made to adhere to the plants when dry."

William P. Ward, Farmers and Planters Co., Salisbury, Md., was elected president of the Delmarva Peninsula Fertilizer Dealers' Association at its annual meeting in that city last week. Other officers elected were: Vice-president, I. W. Culver, Seaford, Del.; secretary, D. B. Ford, Chestertown; treasurer, W. W. Price, Smyrna, Del.

A. C. Schoenewaldt, recently of George Uhe, Inc., is now doing business as a broker in chemicals, solvents, and essential oils, with an office at room 600, Temple Bar Annex, 186 Remsen st., Brooklyn.

J. Roy Pinkham and O. L. Gaither, manufacturers of fertilizers, will open a plant at Exeter, Cal., to serve the citrus district of Central California.









New York Harbor Plant of American Cyanamid Co. Where Aero Brand Ammonia is Made

AMMONIA

An Essential Chemical

Today, Ammonia is one of the world's most essential chemicals—having important applications in practically every industry.

The Air Nitrogen Industry has made possible the manufacture and distribution of this important chemical on a more efficient basis than ever known before, with far reaching effect in the wider use of ammonia and its compounds.

American Cyanamid Company, pioneer producers of air-nitrogen products in America, manufacture and distribute both Anhydrous and Aqua Ammonia of the highest quality for those requiring a uniform high grade product, consistent in its performance.



Anhydrous Ammonia

Exceptionally pure, dry and uniform, conforming to rigid specifica-tions as to quality. Shipped in regulation cylinders in 50, 100 and 150 lb. sizes.

Aqua Ammonia

Water white, of high degree of purity and of course, absolutely free from coal tar impurities. Standard 26° Baume (29.4% actual ammonia) and other desirable concentrations, shipped in tank cars or drums.

Dependable service—prompt shipment in any desired quantity to all consuming areas by rail, water or truck from our New York harbor plant.

Industrial Chemicals Supplied by American Cyanamid Company

Ammonia Anhydrous Aqua Ammonium Chloride Ammonium Chloride
Carbonate of Potash
Case Hardening Compounds
Caustic Soda
Copper Sulphate
Cyanide, Aero Brand
Cyanide, Copper
Cyanide, Porassium
Cyanide, Silver
Cyanide, Sodium
Cyanide, Zinc
Dicyandide, Jinc
Dicyandid Diorthotolylguanidine
Diphenylguanidine
Formic Acid
Hydrocyanic Acid, Liquid
Lead Acetate
Red Prussiate of Potash
Soda Ash
Sodium Sulphide
Sulphocyanides
(Thiocyanates)
Thiourea Urea Yellow Prussiate of Potash Yellow Prussiate of Soda We shall be pleased to receive inquiries regarding Aero Brand Ammonia, or any other products in-cluded in the complete line of Industrial Chemicals offered by this organization.

Kindly address the Industrial Chemicals Division

American Cyanamid Company,

Pioneer Producers of Air Nitrogen Products in America

535 Fifth Avenue : New York, N. Y.

[Industrial Raw Materials]

Shellac Prices Easier: Tanning Extracts Quiet

Increased Spot Supply of Shellac Causes Decline-Fair Sized Supplies In Transit May Cause Further Reductions—Varnish Gums Lifeless—Tanning Materials Difficult to Obtain—Wattle Bark Reaches \$72.00 Ton.

Advanced
Resin B 5c 280 lbs

Rosin H 25c 280 lbs Rosin I 22½c 280 lbs Rosin K 15c 280 lbs Rosin N 10c 280 lbs Shellac all grades 1c lb

Current Quotations and Comments on Specific Items, Page 914

An absence of any sizable buying interest continues among the industrial raw materials group. The holiday period and the inclination of buyers to refrain from purchasing prior to taking inventory has caused a dull month for suppliers but one comparatively favorable to those of previous years. Tanning extracts are chiefly affected and spot business is at a standstill. Offsetting this, prices are extremely firm and supplies of the crude products are difficult to obtain. Valonias and divi-divi are nominally priced and no shipments have emanated from the primary markets for some time. Latest sales were made at high prices and when present situation is relieved, price quotations are likely to create new high records. Wattle bark is in somewhat easier supply, but its price is unchanged and the recent arrivals are to fulfill orders received last June. A price decline will doubtlessly result if the supply continues uninteruptedly and the crop is of normal size. Waxes are not in very heavy demand, in fact, orders are for less than case lots and will probably continue so until after the holidays.

Varnish gums are without any particular life and prices seem to be holding steadily. Shellac prices are somewhat lower as a result of an increasing spot supply. Fair sized quantities are reported to be in transit and easier prices are forecast during the next few weeks. The London and Calcutta markets are easier and also indicate a softer domestic market. There seems to be no particular activity in starches and dextrins, all grades are moving below normal excepting the corn variety which are holding somewhat above normal. Albumens are all quiet but firm in price, reflecting in underlying conditions in the primary market.

(Special to CHEMICAL MARKETS)

Savannah, Ga., Dec. 19th-The turpentine market closed in a weak position to-day with sales made at 511/2c gal. Early in the week, prices fell off sharply and offerings were liberal at 46c@461/2c gal. The substantial advance of the previous week was evidently too large to be held. Since this decline, business has been transacted on a better basis, underlying conditions have strengthened and the daily deals have regained all but 1c gal. of the decline. Regarding the coming week, it is not believed that prices will advance further than their current level of 511/2c gal. as there was a decisive lack of buying interest. Most of those concerned believe that the market is inclined towards descending during the first few days of the week. Fluctuations will probably be frequent during the next few months as receipts will be small and higher prices encouraged. Receipts, 3.332 barrels, sales, 1.825 barrels (2000 barrels additional), shipments, 8,375 barrels and stock 24,483 barrels.

The rosin market closed in a slightly lower position than last week after all grades declined early in the week and reached bottom on Wednesday. The market possessed an upward tendency thereafter and regained most of the decline but lingered at the same prices as the market closed. Further advances are not likely until after the turn of the year when it is thought that mediums and commons will be firmly established at \$8.00 and fine grades at \$11.00. The receipts of rosin amounted to 13,564 barrels, sales reported of 7,177 barrels (An equal amount probably sold but not reported). Shipments were 35,345 barrels and present stock is 116,884 barrels. Current prices are: B,D,

E,F, \$7.25; G, \$7.30; H, \$7.35; I, \$7.40; K, \$7.50; M, \$7.60; N, \$8.50; WG, \$9.50; WW,X, \$10.50.

Jacksonville, Fla. — Turpentine weaker at 4934c gal. Rosin prices X,WW \$10.50; WG \$9.50; N \$8.50; M \$7.60; K \$7.50; I, \$7.40; H \$7.35; G \$7.50; F,E,D,B, \$7.25. Stocks turpentine 34,169 barrels and rosin 108,277 barrels.

FELDSPAR DUTY ASKED

(Special to CHEMICAL MARKETS)

Washington, D. C., Dec. 21—A bill has been introduced in the House by Representative Williamson, South Dakota "to levy an import duty on crude feldspar." The bill, which has been referred to the House Committee on Ways and Means follows:

"That on and after the day following the passage of this Act there shall be levied and collected and paid upon crude feldspar, where imported from any foreign country into the United States or into any of its possessions, a duty of \$3 per ton."

Sealed proposals, in duplicate, will be received at the office of the Marine Corps. Quartermaster's Department, Washington, D. C., until 11 a. m. December 28 for furnishing 350 tons (more or less) of mineral salt, for delivery f. o. b. producer's plant. Proposal blanks and other information may be obtained upon application. This office reserves the right to reject any or all bids or parts thereof and to waive informalities therein. Bids from regular dealers only will be considered.

Public hearing of applications of Phillips Petroleum Co. and Cosmos Co. for construction of carbon black plants in Panhandle oil field will be before Railroad Commission on December 20, at Austin, Tex. Phillips seeks permission to construct two large plants, one to use residue natural gas from wells in Hutchison and Carson counties and the other to use waste gas in Gray County. Cosmos Co. asks permission to construct a plant within city limits of Borger.

During the third quarter of 1927, imports of iron pyrites into Germany exceeded 295,000 metric tons, which compares with 218,400 metric tons in the preceding quarter and 202,600 metric tons in the corresponding quarter of 1926.

Calumet Baking Powder Co.'s hearing before Federal Trade Commission on alleged unfair competitive practices was held last week in New York.



Industrial Alcohols and Alcohol Chemicals

U. S. INDUSTRIAL ALCOHOL CO.
U. S. INDUSTRIAL CHEMICAL CO., Inc.

Executive Offices: 110 East 42nd Street, New York, N. Y.—Branches in all principal cities

Sole Manufacturers of PYRO-THE STANDARD ANTI-FREEZE

Prices Current

Heavy Chemicals, Coal-tar Products, Dyeand-tanstuffs, Colors and Pigments, Fillers and Sizes, Fertilizer and Insecticide Materials, Naval Stores, Fatty Oils, etc.

Chemical prices quoted herein are those of American manufacturers for goods, spot New York, f. o. b., or exstore, for immediate shipment, unless otherwise specified. Industrial chemical products sold principally on a basis of f. o. b. works are specified as such. Quotations on imported chemicals are so designated. Resale stocks sufficient to be a factor in the market, are quoted in addition to makers' prices and are indicated as "second hands"

Oils and fats are quoted spot New York, or ex-dock.

Quotations on products sold f. o. b. mills, or spot Pacific Coast are so designated.

Industrial raw materials are quoted spot New York, f. o. b., or ex-dock. Materials sold f. o. b. works or delivered at various sections of the country are so designated.

The range of prices given is not "bid and asked," but indicates quotations from different sellers, based on varying grades or quantities or both. Containers named are the original packages most commonly used in the New York market.

Acetaldehyde Alcohol Ethyl

Chemicals

Alcohol Isopropyl Butyl Tartrate

Alcohol Ethyl			
Acetaldehyde drs. 1c-1 wks To ACETANILID, tech 150 Tb bbls Tb	.24	:	.26
92-95% 100 m cbys m	.29	:	.35
Acetone, CP, 700 ID drs C-1 WKS ID	1 05		1.75
Acctule the drs N.1	1 00		.45
92-95% 100 lb cbys lb Acetone, CP, 700 lb drs c-1 wks lb Acetone Oil drs N.Y gal Acetyl Chloride, 100 lb cbys lb ACID, Acetic, 28% 400 lb bbls c-1 wiss 100 lb	.92		.20
ACID, Acetic, 28% 400 m bbls c-1 wks 100 m Glacial bbls c-1 wks 100 m Benzolc, tech., 100 m bbls . m Borte crys., powd., 250 m bbls . m Carbolle 10% 50 gal bbls Chlorsulfonic, 1,500 m bbls . m Ctromotropic 300 m bbls . m Ctricit, USP, cryst 230 m bbls . m Ctiric, USP, cryst 230 m bbls . m Ctresylic, 505 m bbls . m Cresylic, 505 m bbls . m Greylic, 505 m bbls . m Formic, 85% tech., 140 ebys m Gamma, 225 m bbls wks . m Hydrobromic, 48% com'1 155 m cbys wks			3 38
Glacial bbls c-1 wks 100 b			11.92
Benzole, tech., 100 h bbls h	.57		.60
Borle crys., powd., 250 m bbls m	.081	6:	.11
Carbolie 10% 50 gal bbls	.25	:	.28
Chlorsulfonie, 1,500 Ib bbls Ib	.15	:	.16
Chromotropic 300 lb bbls lb	1.00	:	1.06
Citric, USP, cryst 230 lb bbls lb	.44	:	.55
Cleve's' 250 lb bbls	.95	:	.97
Cresylic, 95% dark drs NY gal	.65	:	.67
97-99% pale NY gal	.70		.72
Formic, 85% tech., 140 cbys ID	.11	:	.12
Gamma, 225 lb bbts wits lb	1.00		1.06
H 220 ID DDIS WKS ID	.57	:	.63
nyurouromie, 48% com 1 155 ib			40
cbys wks	.45		.48
Hydrocyanic was cyl	.80		.90
HYDROFLUORIC, 30% 400 To			
bbls wks		:	.06
Hydroriuosilicie, 35% 450 lb bbls			
WKSID		.:	.11
LACITO, 22% dark 500 m bbis m	.05	2:	.06
LACTIC, 22% dark 500 m bbls m 44% light bbls . m Laurent's 250 m bbls . m Metanilie 250 m bbls . m	.13		.13 1/2 .54 .65
Metanille 950 th bble	.02	-	.04
		9	.00
Drume wks N Unit	.075	v	.08
Drums, wks	.01		.011/4
Drums, wksN Unit Drums, wksS Unit Monosulfuric F Delta 50 lb tins lb	.01		65
Drums, wks N Unit Drums, wks S Unit Monosulfuric F Delta 50 lb tins lb MURIATIC, 20° cbys wks 100 lb 18° 120 lb cbys c-1 wks100 lb Naphthionic tech, 250 lb bbis lb N & W 250 lb bbis lb NITIC 36° 135 lb Clys c-1 wks 100 lb	1 70		1.00
190 190 % chrs a 1 mlm 100 %	1.70	:	1.80
Nonthible to the core c-1 was 100 ib			1.35
Naphthionic tech., 250 ib bbis ib	.55		.59
MITRIC 280 125%	.89		.88
NITRIC 36° 135 ID Cbys c-1 wks 100 ID 40° cbys c-1 wks 100 ID 0xalic, 300 ID bbls wks NY ID Phosphoric, 50% 150 ID cbys ID Syrupy USP, 70 ID drums & Picramic, 300 ID bbls ID Sallcylic tech., 200 ID bbls ID Sallcylic tech., 125 ID bbls ID Sulfanlic, 250 ID bbls ID SULFURIC, 68° 180 ID cbys 1c-1 wks 100 ID 1,500 ID drums wks 100 ID 60° 1,500 ID drums wks 100 ID 60e 1,500 ID drums wks 100 ID			5.00
400 chw c-1 wks 100 m			6.00
Ovalic 300 h bble wks NV h	11		1114
Phosphoric, 50% 150 b chys to	.08		.0816
Syrupy USP, 70 ID drums &		:	.16
Picramic, 300 lb bbls lb		:	.50
Pyrogallic tech., 200 m bbls m		:	.86
Salicylic tech., 125 m bbls m	.27		.32
Sulfanilie. 250 D bbls D	.15		.16
SULFURIC, 66° 180 m cbys			
1e-1 wks100 m	1.60	:	1.95
1,500 lb drums wks 100 lb		:	1.20
60° 1,500 to drums wks100 to		:	1.10
Oleum 20 pc 1500 lb drums			
1c-1 wks100 m			1.50
1e-1 wks		:	42.00
Tannic, tech., 300 h bbls h	.30	:	.40
Tartarie, USP, cryst powd 300 fb			
Tobias, 250 lb bbls	.04	72 .	.00
Al COHOL Protect Name of the control			.85
ALCOHOL, Butyl Normal by gal drs			00
Deceme 1e-1 when 98			.20
Tank care who			.191/2
Diacetone, 50 cal dec dol cal	1 70		1.90
Wiss c-1 ID Drums 1c-1 wks ID Tank cars wks ID Diacetone, 50 gal drs del gal Ethyl USP 90 pf 50 gal bis gal Anhydrous, drums gal Ethyl Denatured	1.10		9.70
Anhydrous, drums	KO		3.70
Ethyl, Denatured	.00	0	.00
No. 1 Complete denat 190pf			
50 gal drums extra gal.			.52
No. 5 Complete denat 188pf			.02
			.50 : .46
50 gal drums extra gal			

Acid Cresylic — Quotations are very firm at 65c@67c gal. for dark and 70c@72c gal. for pale. Replacements are entering in better volume than earlier in the Fall but are not heavy enough to induce any shading of price values.

Acid Formic — There has been no change in price or position over the week, and the market is quiet at quoted levels.

Acid Gamma —Business is rather slow at this time, contract business for next year is promising and prices are firm at \$1.00@\$1.06.

Acid Oxalic — Producers are still doing a capacity business and are having no trouble in getting 11c lb. for domestic material. The demand is still somewhat in excess of available supplies.

Acid Tartaric — The market is quiet and easy at $34\frac{1}{2}$ c@35c lb. as to quantity and seller for imported material. No change in the situation is looked for until after the turn of the year.

Alcohol — There are reports of pressure to sell in some quarters before the advent of the allotment of production by the Government with a consequent easier tone to the market. This condition is only temporary and the market is basically strong at the schedule level.

Ammonia, Anhydrous — Makers are continuing to experience a very brisk demand for next years requirements and the market is very stiff at 13½c@14c lb. as to quantity. Aqua is in much the same position with heavy sales recorded for next year.

Ammonium Chloride — Domestic manufacturers officially lowered their carlot price to \$4.85 100 lbs. late last week. No reason was given for the move but an easy market and imported competition for what business there is undoubtedly

١	ALCOHOL Isopropyl, refined gal drs .gal 1.00 : 1.25 Propyl nml, 50gal drums b 1.00 Aldehyde Ammonia, 100 gals drs lb .80 : .82 Alpha-Naphthol crude 300 lb bls lb 6.5 Alpha-Naphthylamine, 350 lb bls lb 35 : .37 ALUM, Ammonia, lump, 400 lb bls 80 Chrome, 500 lb cks, wks lb 5.25 : 5.50 Chrome, 500 lb cks, wks lb 5.25 : 5.50 Chrome, 500 lb caskswks100 lb 3.20 Chrome, 500 lb caskswks100 lb 3.75 Aluminum metal, c-1 NY 100 lb 3.75 Aluminum metal, c-1 NY 100 lb 3.75 Aluminum ental, c-1 NY 100 lb 3.75 Aluminum ental, c-1 NY 100 lb 3.75 Aluminum betal, c-1 NY 100 lb 3.75 Aluminum betal, c-1 NY 100 lb 3.75 Stearate, 100 lb bls b 35 : .40 Hydrate 96% light 90 lb bls lb 17 : 1.18 Stearate, 100 lb bls lb 23 24 SULFATE, Iron-free bags c-1 wks 100 lb 1.75
١	Isopropyl, refined gal drsgal 1.00 : 1.25
l	Propyl nml, 50gal drums b 1.00
١	Aldehyde Ammonia, 100 gals drs th .80 : .82
l	Alpha-Naphthol crude 300 lb bbls lb : .65
Ì	Alpha-Naphthylamine, 350 m bbls m .35 : .37
ĺ	ALUM, Ammonia, lump, 400 lb bbls
ł	wks 1e-1 100 h 3.25 · 3.30
ł	Chrome 500 lb eks wks lb 5.25 : 5.50
l	Potech lump 400 h wks 100 h 3 10 : 3 20
ł	Observe 500 % analyze 100 % 5.20 . 5.20
1	Chronic, 500 in Casaswas100 in 5.25 . 5.50
ļ	South Gru, 100 ID DDISWESTOUID 0.75
i	Aluminum metal, c-1 N11 UU ib 26.00
1	Chioride, annyd 275 ib drs ib .35 : .40
1	Hydrate 96% light 90 m bbls m .17 : .18
ı	Stearate, 100 m bbls m .23 : .24
ı	SULFATE, Iron-free bags c-1
1	wks
ı	Com'l bags c-1 wks 100 b : 1.40
1	Aminoazobenzene, 110 lb kegs lb : 1.15
1	AMMONIA, anhyd, 100 lb lb .11 : .121/2
1	Water, 26° 800 lb drs del lb : .03
١	Bifluoride, 300 bbls b .21 : .22
1	Carb. tech., 500 m cases m .08%: .09
1	Chloride White bbls wks 100 lb. 4.85 : 5.15
١	Grav. 250 bbls wks Ib .0514: .0534
ı	Lump. 500Tb easks snot . Th .11 : .1134
ı	Lactate 500 th bhis th 15 : 16
	Parculfata 119 kass Th 9714: 20
	Phoenhate Tech newd 295 Th
	Manager and Santo
	Chilfole hulls and 100 th 0.05 s 0.40
ı	Surface, bulk e-1100 lb 2.35 : 2.40
	Southern points100 ib : 2.35
	Amyl-Acetate, tech., bu galars. gai 1.90 : 2.00
	Stearate, 100 fb blis blis color
	ANILINE OIL, 960 ID drums ID .15%; .16%
	Anthraquinen, sub 125 m bbls m .90 : 1.00
	Antimony metal slabs tons lots ID : .111/4
	Needle powd 100 fb cs fb .151/2: .16
	Oxide, 500 bbls
	Arsenic Red, 224 kegs cases 10 .10 1/2: .11
	White 112 lb kegs lb : .04
	BARIUM Carbonate 200 lb bgswkston 47.00 : 50.00
	Chlorate, 112 m kegs NY m .12 : .12 %
	Chloride, 800lb bbl wkston 55.50 : 58.00
	Dioxide, 88% 690 m drs m .13 : .13 %
	Hydrate, 500 b bbls b .04%: .04%
	Nitrate, 700 lb csks lb .0736: .08
	Barvies, floated 350 h bbls
	wks ton 23 00 · 24 00
	Renzaldehyde tech 945 th dre whath 65 . 70
	BENZENE
	Comm 00% 8 000 gal themisseal 21 : 22
	Commandally pure the why sel 01
	Paneldine Pass des 050 % bble % 70 : 74
	Demand Chlorida FOO des
•	Comm. 90% 8,000 gal tkswksgal .21 : .23 Commercially pure tks wks gal21 : .23 Benxidine Base, dry 250 fb bbls fb .70 : .74 Benzoyl Chloride 500 drs fb : 1.00 BETA-NAPHTHOL 250 bbls wks fb : .24 Beta-Naphthylamine tech 200 fb
	Deta-Narhinul 250 Dols Was 10; .24
	Beta-Naphthylamine tech 200 h
•	0018
	Sublimed, 200 to bols to : 1.35
	Blanc Fixe, 400 m bbls wks ton 80.00 : 90.00
	BLEACHING POWDER, 700 ID drs
ı	c-1 wks contract 100 lb : 2.00
۰	300 lb drs e 1 wks contract 100 lb 2.25
	Beta-Naphthylamine tech 200 lb bbls
	Prussian Soluble 10 .28 : .30
	Bone Ash, 100 lb kegs lb .06 : .07
1	Black, 200 m bbls m : .03 1/4
1	Borax, erys., 500 lb bbls lb .04 1/2: .05
	Bordeaux Mixture, 16% pd
	Paste, bbls
-	Butyl Acetate normal tk drs wksgal 1.55
-	Drums 1c-1 wksgal 1.60
,	Secondary 50gal drumsgal 1.00 : 1.05
	Aldehyde 50 gal drs wks ID .70
1	Propionate drs D .34 : .36
	Blues, bronze Chinese, Milori Prusslan Soluble

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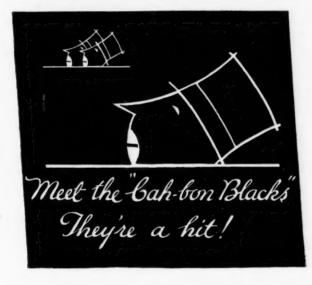
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Sulphur Black Anthraquinone Beta Methyl Anthraquinone Aluminum Chloride (Sublimed Anhydrous) Dyestuffs Soda Hyposulphite

Highest Purity Prompt Delivery Attractive Prices

E.C. KLIPSTEIN AND SONS CO.

Calcium Acetate Ferrous Chloride			Chemicals	Flu Para-Amino	orspa	
Stearate 50gal drs D. Tartrate drs	.57	: .60	forced the move. Imported is eas-	Fluorspar, 95% 220 D bap ex-	•	
GALCIUM Acetate 150 m bgs e-1		: 8.50	ily procurable at these levels and	FORMALDEHYDE USP, bbls 400 E	. ::	
Arsenate, 100 lb bols e-l wis lb.	.07 1/4	: .08	might be shaded to \$4.80 100 lbs.		08%: 89 :	
Carbonate, tech 100 m bags e-1 100 m.		: 1.10	New York.	Furfural 500 lb drums lb.		.1
GALCIUM Chloride solid 650 lb drs	21.00	: 23.00	Aniline Oil — A few tank car	G SALT paste 360 D bbls D.	50 :	
Flake, 375 lb drs e-1 wks. ton.		: 21.00 : 52.00	sales featured the market for the	GLAUBER'S SALT, tech., 200 lb bgs e-l wks100 lb. 1.	05 :	
Mitrate, 220 D bbls e-1 NY ton. GALGIUM, Phos., tech450 D bbls D.	.09	: .10	week and prices continue to be rig-		21 : 16 :	.23
CAMPHOR, Amer ref. 250 m bbls m. Jap., ref slabs 100 m cs m.	.60	.62	idly firm at 151/4c@161/4c lb.	Saponification tanks ID.	101/2:	.13
Carbon Bisulfide 500 m dr le-1 NY	.05%	.06	Barium Chloride — Domestic	Hexalene, 50gal drs., wks D.	091/4:	.60
Carbon Black 100-300 b cs lc-lNY b.			manufacturers are busy with next years commitments and are taking	HYDNOGEN PEROXIDE.	62 :	.65
Decolorizing 40 lb bags e-1 lb.	.08	.15	the major share of the business at		24 :	.20
Carbon Dioxide, Liquid 20-25cy D. Tetrachloride, 14000 D drs del D.	.07	.01%	somewhat under the quoted domes-	Nitrate, kegs	00 : 50 :	8.25
Callulose Acstate, 50 D kegs. D.	.17%	: 1.40	tic spot level. Importers continue	Oxide, red Spanish	03%:	.03
Chalk, drop 175 b bbls b. Precip., light 250 b bbls csks b.	.03	.03%	to quote \$55.50@\$57.00 ton for		10 :	.12
Precip., heavy 560 fb csksfb. CHLORINE, Liquid tank or multi-	.0214	.041/4	prompt shipment.	LEAD, Metal c-l NY 100 Tb	. :	6.25
unit cer, contractwks iD .	***		Beta-Naphthol — Somewhat si-	Acetate, white crystals500 lb bbls wks100 lb. 13.		
Carlots cyl wis contract Ib.	.08		lent now but expected to move in good sized volume after the turn of	Nitrate, 500 lb bbls wks b.	13%:	.14
Chlorobenzene, mono, 100 b drs.		.01	the year. Prices are held at 24c		. :	.08
CHLOROFORM, Technical 1,000 B	.20		lb. and the lowest price obtainable	Oleate, bbls	1714:	.18
Chromium Acetate 20° sol'n400lb			is 22c fb. for bulk quantities.	White sulfate 500 m bbls wks m.		.08
Fluoride, Powd., 400 lb bbls lb.	.27	.051/2	Bleaching Powder -Moving well	Cround Stone, bagston,	:	4.50
Oxide, Green bbls b. Chrome Green, CP b.	.34 1/2		for 1928 contracts with no change		: :	1.00
Comm.	.161/2	.11	as to position or price.	MAGNESITE, calcined, 500bbls ton. 48.0 Magnesium Carb., tech., 70 b bags		50.00
Chrome Yellow D. Clay c-1 Bulk, Del.,ton.	16.00	18.00	Copper Sulfate - Demand is	NY	06 :	.00
Copper, metal electrolytic. 100 B. Carbonate 400 B bbls B.	.16%	.1714	quite brisk and in this respect sales	MAGNESIUM, Chloride, flake 575 b drs e-l wkston.	::	81.00
Chloride 250 lb bbls lb. Cyanide 100 lb drs lb.	.48	.28	are exceeding those of last Decem-	Imp., Flake Shiptten.	. : :	88.00
Oxide, red 100 m bbls tons. m.	.16%	.17	ber. Producers here are reluctant to take on orders for more than	Fluosilicate cryst400 lb bblswks lb	10 :	31.00
Sub-acetate verd 440 m bbls SULFATE, Carlots, bbls wks 100 m.	.18		sixty days ahead and business on			.62
Copperas bulk, crystal and sugar c-1 wks	13.00	14.00	this basis is being done at \$5.00		23 :	.20
Sugar, 100 D bbls100 D.	1.25	1.85	100 lbs. in all sections. In spite	bbis	:	.24
Cotton Soluble 100 D wet D. CREAM TARTAR, USP, 800 D		.271/2	of consumers desire to contract for	Sulfate, 550 m drums NY m.	08 : 07 :	.07
Crecoots USP 42 lb chys B.	.40	.42	the Spring season, little has been closed on this position yet.	MERCURY, metal 75 lb flask, flask127.5 Meta-Nitro-aniline	50 :12	29.00
Crocucta Oil Natural 50gal drs. gal.	.20	,26		Meta-Nitro-para Toluidine, 200 m bbls		
10-15% Tar Acidgal. 25-30% Tar Acidgal.	.28		Dianisidine — This market has precipitated to \$2.80 lb. At present	Meta-Phenylenediamine, 300 m		
	2.85 3.25	2.90	is firm and the lowest procurable	Meta-Toluylenediamine, 300 D	10 :	.94
Dibutyl Phthalate wks Ib.	.291/2:	.311/2	quotation is \$2.70 lb. for contract	METHANOL (Wood Alcohol) drms	12 :	.14
Dibutyl Tartrate, 50gal drums. D.	.55	.25	quantities. Increased production	95%gal		.55
Diethylamine, 400 lb drs lb. Diethylamiline, 850 lb drs lb.	.55	2.15	and cheaper costs are responsible	97% drums, lc-lgal		.57
Diethye Carbonate 90% drums gal.	1.85	2.00	for this change.	Synthetic drums, lc-lgal, U. S. denat. grd., tanksgal	. :	.58
Deithyl Phthalate 1,000 drums Ib. Deithyl Bulfate tech., 50 gal drs Ib.	.80	.35	Diphenylamine — Is proceeding	Methyl Acetate drumsgal. Methyl Acetone, 100 gal drums gal	. :	.85
Dimethylamine, 400 h drsb. Dimethylamine 340lb drs. wks b.	.30	.32	in a routine manner with good con- tract deliveries and an average	Chloride, 90 lb cylgal5	55 :	.60
Dimethysulfate, 100 lb drs lb.	.45		amount of spot business at full	Monorthylaniline, 900 D drs D. Monomethyl paraminophenol sulfate	. :	1.05
Dinitrobensene, 400 m bbls m. Dinitrochlorobensene, 400 m bbls m.	.15 :	.16	prices of 45c lb. for barrels. Con-	100 D drs D. 3.6 NAPHTHALENE, flakes, 175 lb bbls)5 :	4.20
Dinitrochlorine, 300 h bblsh. Dinitronaphthalene, 350 h bblsh.	.18 :	.34	tracts for next year are being en-	wks		.05
Dinitrophenol, 350 m bblsm.	.31 :		tered readily at 42c lb.	Balls, 250 lb wks lb Crushed, chipped bgs wks lb		.06
Diorthotolyguanidine, 275 lb			Glycerin — Business in dynamite	NICKEL, Chloride, bbls kegs D 2 0xide, 100 b kegs NY	11 :	.34
bbls wks	.85	.47	was very dull over the past week	Salt single 400 lb bbls NY lb	8%:	.09
Diphenylguanidine 100 lb bblslb. EPSOM SALT, tech., 300 lb bbls	.68 :		with few if any sales to establish a market, and it is openly quoted at	Nicotine, Free, 40% 8 fb tins cs. fb. 1.2		1.80
el NY100 m.	:		16c lb. but this price is subject to	Nicotine Sulfate 10 m tins m. Nitro Cake 500 m bblston. 13.0	. :	1.10
Ethyl Acetate, 99% 50gal drs gal. 85% Ester 110 gal drs			shading. Saponification has been	Nitrobenzene, Redistilled 1000 lb drs		
	1.05	1.11	sold recently at 103/4c lb.; lye is	Nitronaphthalene, 550 m bbls m.	014:	.10
Chloride, 200 b drs b. Lactate drums wisgal.		0 -0	quiet and practically nominal at 9-	Nitrotoluene, mixed 1,000 lb drs wks lb1		.18
		.80	34c@10c lb. and C.P. is held at 20c lb. in bulk.	Orange-Mineral, 1100 lb cks, NY fb 1	3 :	.13
Methyl Ketone, 50gal drs Ib .	AF	88	THE THE PROPERTY OF THE PARTY O	Ortho-Aminophenol, 50 lb kegs lb . 2.2		2.25
Methyl Ketone, 50gal drs. D. Oxalate drums wks D. Ethylene-Bromide 600 D drs. D.	.45	.10		Ortho-Anisidine, 100 D drs D. 2.3		
Methyl Ketone, 50gal drs. D. Oxalate drums wis D. Ethylene-Bromide 600 b drs. b. Chlorhydrin, anhyd., 50gal drs b.		.10 .85	Mercury - The good demand on	Ortho-Dichlorbenzene1,000 B Ortho-Nitrochlorobenzene, 1,200 B		
Methyl Ketone, 50gal drs. lb. Dichletene Bromide 600 lb drs. lb. Chlorhydrin, anhyd., 50gal drs lb. Dichloride, 50gal drs. lb. Glycol 50gal drs. lb. Livel 50gal drs. lb.	.75	.70 .85 .11	Mercury — The good demand on the past ten days continues to some	Ortho-Dichlorbenzene1,000 fb Ortho-Nitrochlorobenzene, 1,200 fb drs. wks)6 : 12 :	.07
Methyl Ketone, 50gal drs. lb. Calate drums wks lb. Ethylene-Bromide 600 lb drs lb. Chlorhydrin, anhyd., 50gal drs lb. Dichloride, 50gal drs lb. Glycol 50gal drums wks lb. Ethyl Ether drs., c-l gal. Ethylidenanlline lb.	.75	.70 .85 .11 .40 1.79	Mercury - The good demand on	Ortho-Dichlorbenzene 1,000 m)6 : 12 : 88 :	.35
Methyl Ketone, 50gal drs. lb. Oxalate drums wks	.75 .80 .63 10.00	.70 .85 .11 .40 1.79 .65	Mercury — The good demand on the past ten days continues to some extent and the market is in a good position at \$127.50@\$128.00 flask as to position and seller. Basically	Ortho-Dichlorbenzene 1,000 lb. Ortho-Nitrochlorobenzene 1,200 lb. drs. wks. lb. Ortho-Nitrophenol, 350 lb. lb. Ortho-Nitrotoluene 1,000 lb. drs. Wks. lb. lb. Ortho-Tolukune 1=1 350lb. bbls. lb.	06 : 12 : 18 :	.07 .35 .90
Methyl Ketone, 50gal drs. lb. Ozalate drums wks. lb. Ethylene-Bromide 600 lb drs. lb. Chlorhydrin, anhyd., 50gal drs lb. Dichloride, 50gal drs. lb. Ethyl Ether drs., c-1 gal. Ethylldenaniline lb. Feldspar bulk ton.	.75	.70 .85 .11 .40 1.79 .65	Mercury — The good demand on the past ten days continues to some extent and the market is in a good position at \$127.50@\$128.00 flask as	Ortho-Dichlorbenzene . 1,000 fb. Ortho-Nitrochlorobenzene, 1,200 fb. drs. wks fb. Ortho-Nitrophenol, 350 fb fb. Ortho-Nitrophenol, 350 fb	12 : 13 : 15 : 17 : 19 :	.07 .35 .90

Para-Am	Fluor	spar nenol
Fluorspar, 95% 220 lb bap ex-		
FORMAL DEHADE TICK AND AND	•••	: 25.00
Formaldehyde Angline 100 m drs m. Furfural 500 m drums Fusel 0il 10% Impurities drs gal. G SALT paste 360 m bbls m.	.08%	09
Furfural 500 lb drums b.		: .42
Fusei Oil 10% Impurities drs gal. G SALT paste 360 D bbls D.	.50	: 1.35
GLAUBER'S SALT, tech., 200 b be-1 wks	1 05	. 1.10
GLYCERIN, CP, 550 lb drums 10.	.21	: .22
Dynamite, 100 dr	.16	: .17 6: .11
Saponification tanks	.101	6: .10
Hexamethylenetetramine dra	62	: .60 : .65
HIDINGER PERGAIDE,		
IRON Chloride see Ferric or Ferrous	.34	
Nitrate, kegs	.00	: .10
Oxide, red Spanish D.	.03%	.03%
English	.10	: .12
LEAD, Metal c-l NY 100 lb.		: 6.25
LEAD, Metal c-1 NY 100 lb. Acetate, white crystals 500 lb bbls wks 100 lb. Arsenate, bbls, lc-1 wks lb. Nitrate, 500 lb bbls wks lb. Oxide, Litharge 500 lb bks lb. Oxide, ced 500 lb wks lb. White, 500 lb bbls wks lb. White sulfate 500 lb bks wks lb. LIME, (Salts, see Calcium Salts)	12 00	• 18 KO
Arsenate, bbls., le-l wks D.	.13 %	: .14
Oxide, Litharge 500 lb bbls. lb.	***	: .08%
Oxide, red 500 lb wkslb.	****	.09 %
White, 500 lb bbls wks lb.	.119	: .09
White sulfate 500 m bbls wks m. LIME, (Salts, see Calcium Salts)		: .081/4
Ground Stone, bagston.		: 4.50
Lithopone, 400 lb bbls le-1 wks lb.	• • •	: 1.05
Ground Stone, bags	48.00	: 50.00
Magnesium Carb., tech., 70 b bags		: .06%
MAGNESIUM, Chloride, flake 575 H)	
Imp., Flake Shipt ton.		: 88.00
Imp., fused 900 lb bbls NYton.	10	: 31.00
Oxide, USP, light 100 lb bbls lb.	.10	: .42
drs c-l wks ton. Imp., Flake Shipt Imp. Imp., Imp.	93	: .50
Manganese Borate, 80% 200 D		
bbls	.08	: .24 : .081/2 : .071/4
Sulfate, 550 h drums NYh.	27.50	: .07%
MERCURY, metal 75 lb flask, flask1 Meta-Nitro-aniline D.	.73	: .74
Meta-Nitro-para Toluidine, 200 b bbls	1.70	: 1.80
Meta-Phenylenediamine, 300 m bbls m.	.90	: .94
Meta-Toluylenediamine, 300 B		
bbls		: .74
### METHANOL (Wood Alcohol) drms 95%		: .55 : .57
97% drums, lc-lgal. Pure drums, lc-lgal.	• • • •	.57
Synthetic drums, [c-1 gal.		00
U. S. denat. grd., tanks. gal. Methyl Acetate drumsgal. Methyl Acetone, 100 gal drums gal.	•••	: .95
Methyl Acetone, 100 gal drums gal.	.55	: .85
Chloride, 90 m cyl		: 1.05
Monomethyl paraminophenol sulfate 100 m drs m.	8.95	: 4.20
NAPHTHALENE, flakes, 175 lb bbls	1	
Balls, 250 lb wks		: .05
NICKEL, Chloride bhis kees th	.21	: .0414
Oxide, 100 lb kegs NY lb.	.35	: .38
Salt single 400 lb bbls NY lb. Double, 400 lb bbls NYlb. Nicotine, Free, 40% 8 lb tins cs. lb.	.08%	.09%
Micotine, Free, 40% 8 m tins cs. m.	1 25	. 1 20
Nicotine Sulfate 10 m tins m. Nitro Cake 500 m bblston.	13.00	: 14.00
Nicotine Sulfate 10 lb tins lb .	101/	. 101/
Nitronaphthalene, 550 m bbls m.	.10%	: .10%
Nitrotoluene mixed 1 000 th dee		
Orange-Mineral, 1100 lb cks. NY D.	.13	: .15 : .131/4
Ortho-Anisidine. 100 m drs m.	2.20	2.25
wks	.06	: .07
des. wks	22	: .35 : .90
Ortho-Nitrophenol, 350 lb lb. Ortho-Nitrotoluene, 1,000 lb drs	.88	: .90
Ortho Toluidine le-1 350lb bhis lb.	.17	: .18
Para-Aminoacetanilid, 100 lb bgs lb.	1.00	: 1.05
Hydrochloride, 100 m kegsm. 1 ara-Aminophenol, 100 m kegsm.	1.25 :	1.30
	*** *	1.15

Pure Phthalic Anhydride



Phthalic Anhydride of the highest purity has been produced by us in commercial quantities for over 9 years and this pure Phthalic Anhydride is well-known to the trade as SELDEN BRAND. Its form is the natural long needle crystal which dissolves and melts much more rapidly than in any other form.

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THE SELDEN COMPANY

Pittsburgh, Pa., U.S.A.

Para-Dichlorbenzene Sodium Acetate

Chemicals

Sodium Bicarbonate Zinc Metal

7,000,000		_	
Para Dichlorobenzene, 150 h bbls			
wks	.17		.20
wks	.26		.28
Para-Nitroacetanilid 800 D bbls D			.55
PARA-NITROANILINE, 300 D bbls			
wks single bbls Ib. Para-Nitrochlorobensene, 1,200 Ib drs	.48		.40
wks		:	.32
Para-Nitro-ortho Toluidine, 300 B			
			2.85
Para-Nitrophenol, 185 lb bbls lb Para-Nitrosodimethylaniline, 120 lb	.50		.55
Para- Nitro Toluene, 350 lb bbls lb.		:	.94
			.30
Para-Phenylenediamine 350 lb bbls lb . Para-Teluene-Sulfonamide, 175 lb	1.15	:	1.20
bbls	.40		.41
Para-Toluene-Sulfonchloride, 410 D			
bbls wks	.20		.22
PARIS GREEN.	.10		.40
Arsenic Basis, 500 lb kegs lb	.19		.20
Kegs, 100 lbs		:	.22
PETROLATUM, green 300lb bbls lb Phenol Small drums 250—100lb b.	.0234	:	.03
Phenyl-Alpha-Naphthylamine 100 b	. 2.4		.20
kep		:	1.85
Phosphorus, red 110 lb cs lb	.60	:	.65
Yellow 110 D cs wks D	***	:	.32
Phosphorous-Oxychloride 175 lb cyl lb Phosphorous Sesquisulfide 100 lb	.85		.40
cases		:	.46
Phthalie, Anyhdride, 100 b bbls			
wiss	.18	:	.20
Domestic, wks			.07%
PSTASH SALTS, rough Pot. Muriate basis 80% bgs ton			
Pot. Muriate basis 80% bgs ton			6.40
Pet. Sulfate, basis 90% bgs ton Pet. & Mag, Sulfate basis 48%		: 4	7.80
bagston		: 2	7.00
Manure Salts basis 30% bulk ton		: 1	8.75
Manure Salts basis 20% bulk ton			2.40
Kainit, basis, 12.4% bulk ton	* * *		9.00
Kainit, basis, 14% bulkton tons 10%			9.50
POTASSIUM Blearb USP 320 D			
bbls	.09		.091/
Bichromate, crys., 725 lb csks lb Powd., 725 csks wks lb	.08%		.08%
Binoxiate, 300 lb bbls lb Bisulfate, 100 lb kegs lb	.16	:	.17
Bisulfate, 100 lb kegs lb		:	.30
CARBONATE, 80-85% calc. 800 lb cks lb	.055	4 .	.05%
Chlorate cryst powd 112 lb kegs	,	•	
wks	.083		.09
Chloride, crys., bbls ID	.083		.081/
Chromate, kegs	.27	:	.051/2
Cyanide 110 D cases D	.55		.57%
Metabisulfite, 800 b bbls b	.113		.12
Oxalate, neutral, 225 bbls ID	.16		.17
PERMANGAN, USP, crys., 500 lb & 100 lb drs wkslb	.15	4:	.151/2
Prusslate red, 112 D kegs D	.87		.38
Prussiate, yellow 500 lb easks lb	.18	:	.181/
Tartrate, neutral 100 m kegs m Titanium Oxalate, 200 m bbls m		:	.51
Pyridine, 50 gal drsgal	1.50	:	1.75
R SALT, 250 bbls wks	.45		.46
Salt, Common, see Sodium Chloride	10.00		20.00
Balt Cake 94-96% e-1 wkston White 87% wkston	15.00	:	17.00
SALTPETRE, Double refined			
Granular, 450-500 m bbls lb			
Satin White, 500 m bbls m		:	.01 1/4
Crude, bulk, mineston	6.00	:	7.00
Refined, floated bagston	15.00	:	30.00 50.00
Air floated bagston Extra, floated, bagston	32.00		65.00
SODA ASH 58% Hight			
bags delivered NY 100 lb			
Contract, e-1 DES WES 100 ID	2.14	0	2.29
58 % densec-1 bgs wks 100 m			1.00 78
Contract, e-1 bgs wks 100 m 58% densec-1 bgs wks 100 m CAUSTIC, 76% solid	• • • •	*	1.00 78
CAUSTIC, 78% solid	• • • •	*	1.82 1/4
CAUSTIC, 76% solid drums delv'd NY 100 D Ground & Flake 76%	8.76	:	1.82 %
CAUSTIC, 78% solid	8.76	:	1.82 %
CAUSTIC, 76% solld drums delv'd NY 100 m Ground & Flake 76% drums del, NY100 m Contract e-1 wks100 m SODIUM ACETATE, crys 450 m bbls	3.76 4.18	:	1.82 % 8.91 4.21 8.00
CAUSTIC, 76% solid drums delv'd NY 100 B Ground & Flake 76% drums del., NY100 B Contract e-l wks100 B	3.76 4.18	:	1.82 % 8.91 4.21

Meta-phenylenediamine — Other than closing contracts for next year, the market is without feature. Prices are extremely firm at 90c lb. in barrels.

Meta-Toluenediamine — Also without feature and firm prices of 71c@72c lb. Contracts have been entered with but little hesitation at 70c lb. and the outlook for 1928 is very promising.

Methanol — Leading producers report a strong market with sales in tank cars this past week at 49½c gal. This opinion is not voiced in all quarters with some factors reporting lower levels possible.

Ortho-Toluidine — Conditions surrounding this market are very strong, prices are quoted at 29c for barrels and contracts at 28c lb.

Para-Nitrotoluene — Contract closings have practically been completed at current prices which show no tendency to move either way.

Potash, Caustic — Both imported and domestic are quiet in all directions and the market is just about steady at quoted levels.

Tin Salts— There has not been any change in the price for the past two weeks with the market held at 173/4c lb. for bichloride, 42c lb. for crystals and 36c lb. for tetrachloride.

Toluidines, Mixed — Spot business is rather dull at 31c@32c lb. and contracts have been entered over next year, for sizable quantities at the lowest quotation of 30c lb.

Zinc Ammonium Chloride —Domestic makers find a slightly better market in some directions, though it has not caused any particular recovery in the price, which was reduced last month to 534c lb. in all directions.

OILS AND FATS

Chinawood Oil — Has made a strong recovery following sharp decline in prices last reported. Spot is still unchanged at 14¾c@15c lb., but the Coast market for December shipment was at 12½c lb. Jan.-Feb.-Mar. price at the Coast is 12¾c lb.

Coconut Oil — Prices on Ceylon and Manila in barrels at New York have advanced, both being quoted at 93/4c@10c lb. All other grades are unchanged at quoted prices although business has improved somewhat.

Cod Oil — Increased activity is reported in this market although prices have not advanced over those quoted last week. Barrels are now

	Zine	MCC	#1
5	SODIUM (Cont.)		
	Bicarbonate 400 m bbls NY100 m Bichromate, 500 m casks wks m Bisulfite, 500 m bbls wks m Carbonate 350 m bbls NY 100 m 1. Chloride, tech		2.41
	Bisulfite, 500 lb bbls wks lb	00%:	.04
	Carbonate 350 b bbls NY 100 b 1.	80 :	1.35
	Chlorate 112 h km who Th	0614	13.00
	Cyanide 96-98% 100 & 250 B	, ac	.00%
	drums wis	:::	.20
ı	Hypochlorate Soln 100 h ches th	08%	.05
l	Hydrosulfite 200 lb bols fob wks lb	22	.24
l	HYPOSULFITE, tech., pea crys		
١	Regular ervs. bhla wks 100 fb 2	40 :	2.65
l	Metanilate, 150 lb bbls D.	:	.45
١	Naphthlonate, 300 m bbls m	.55 :	.57
ı	Hydrosulfite 200 lb bbls fob wks lb	:	2.45
ı	Dec. Shipment100 D.	:	2.45
١	Orthro-Chloro-Toluena Sulfonate	.08 :	.08 1/4
١	175 b bbls wks lb	.25 :	.27
ı	Oxalate, neutral, 100 h kegs h	.20 :	.23
l	Phosphate, di-sodium tech 550 h	.21 :	.22
ı	Orthro-Chloro-Tolone Sulfonate 175 b bbls wks . b Oralate, neutral, 100 b keps b Perborate, 275 b bbls	.25 :	3.55
l		.08 :	
۱	bbls	. :	.3.90
l	PRUSSIATE, vellow 350 h bbls		
1	Pyrophosphate 100 m kees m	.13 1/4 :	
1	wks	78 .	
1	drums wks100 lb	.85 :	1.10
l	Silicofluoride 450 m bbla NY m	.0414	.05
١	Stannate, 100 h drums h	.48%:	.49
١	Sulfanilate 400 lb bbls lb.	.16 :	.18
١	ryroponospate 100 m kegs m Silicate, 40° turbid, 55 gal drums wks 100 m 40° clear drs wks 100 m Silicofluoride 450 m bbls NY m Stannate, 100 m drums m Sulfanliate 400 m bbls m Sulfate Anhydrous 550 m bbls	.0214	.02%
١	Sulfide, 60% solid, 650 m drs	.0314	.04
١	30% crys 440 lb bbls wks lb	.02 1/4	.02 %
١	Sulfite, cryst 400 m bbls wks m	.03 14	.03 1/4
١	wksgal.	.35	.40
١	STRONTIUM, Carbonate, 600 ID	071/	.07%
١	Nitrate, 600 D bbls NY D.	.08%	.09
١	SULFUR Crude, fob mineston 13	8.00	19.00
ı	Brimstone Broken Rock 250 lb bgs		2.05
1	Roll, 1 e-l bbls NY 100 m	2.65	2.85
١	Flour, Heavy bgs c-1 100 lb	• • •	2.50
1	Solution From Rock 250 ib Ogs		2.40
1	Flowers 100% 155 lb bbls		: 3.45
1	Sulfur Chloride, red, 700 lb drs		
1	Sulfur Chloride, red, 700 lb drs wks	0834	05 1/2 04 1/2 08 1/2 19 70 08 20 24 58
	Sulfur Dioxide, 150 m cyl m	.08	.081/2
	Extra Dry, 100 m cyl m	.17	: .19
	Tar Coke Oven. Tks., wksgal	.07	08
	Tetralene, 50gal drs wks Ib	***	: .20
,	Thiocarbanilid, 170 m bbls m	.22	.24
	Bichloride, 50% sol'n 100 m	• • • •	
1	bbls wks		: .17%
	Crystals, 500 lb bbls wks Ib.	* * *	75
•	Tetrachloride, 100 lb drs wks lb. Titanium Oxide 200 lb bbls lb		
	Titanium Oxide 200 lb bbls lb	.131/	: .40
	Pigment, bbls wks	.90	94
	Tolidine, 350 lb bbls lb Toluene, 8,000 gal tnk cars wks gal		: .35
a	110 gal drs wksgal Toluidine, Mixed, 900 lb drs wks lb	.81	.32
_	Toner Lithol Red bbls	.85	: .90
t	Para Red bbls	1.75	: 1.80
	Toluidine	3.60	: 3.90
,	1 Triphenviguanidine	.69	: .73
r	Urea Pure, 112 lb cases lb Vermilion English kegs lb.	.18	: .20 : 1.95
-	XYLENE, 10° tanks wksgal.	• • •	: .32
١.	Com'l tanks wksgal.	.30	: .32
n	Xylidine Com'l		: .38
k	ZINC METAL, high grade slabs c-l NY100 lb. ZINC Amm Chloride, pwd 400 lb bbls		: 6.40
d	bbls		: .05%
S	bbls	.09	4: .10
-	Chloride, fused 600 D drs wks D		: .06
d	Granulated, 500 fb bbls wks fb Solution 50% taks wks 100 fb	.06	
	Cyanide, 100 lb drs lb.	.40	: .41
s	Dust, 500 lb bbls c-1 wks lb.	.07	: .09
h	Oxide, Amer., bags wks ID. French. 300 Ib bbls wks Ib.		
e	Sulfate, 400 lb bbls wks lb.	.03	72003/4
V	Sulfide, 500 m bbls m Sulfocarbolate, 100 m kegs m	.30	: .32
	DELOCAL DOTATO, AUGUS 111 E		



THE pioneering spirit of its founders is still alive in the Solvay organization. The trade can continue to look to Solvay for development of real advantage to the consumers of Alkali.

Solvay 58% Soda Ash

Dense-Light

Solvay Fluf
(Trade Mark Registered)
(Extra Light Soda Ash)
Solvay 76% Caustic Soda

Solvay Liquid Caustic Soda

Solvay Equid Caustic Soda
Solid—Flake—Ground
Solvay Super Alkali
(Trade Mark Registered)
Solvay Snowflake Crystals
(Trade Mark Registered)
Solvay Laundry Soda
Solvay Classics Solvay

Solvay Cleansing Soda

Solvay Tanners Alkali Solvay Tanners Soda

Solvay Calcium Chloride

Solvay Caustic Potash Liquor 45%

Solvay Sodium Nitrite

Solvay Ammonium Chloride

Solvay Ammonium Bicarbonate Solvay Paradichlorobenzene

Solvay Benzaldehyde

Solvay Benzyl Chloride

Solvay Liquid Chlorine

Solvay Sales Corporation



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40 Rector Street

New York

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St. Louis

Atlanta

Oils & Fats

Sperm Oil Glue

Oils @ Fats

Oils @ Fat	S		
Garden No. 1 400 lb bble Th	.14		.141/2
Castor, No. 1, 400 lb bbls lb. No. 3	.131/2		.14
Blown, 400 lb bbls			.17
China Wood bbls spot NY ID.	.14%		.15
Tanks, Spot NY D.			nom.
Coast tanks-Jan D.			.12%
Coconut Ceylon 375 lb bbls NY lb.	.09%		.10
8,000 gal tanks NY Ib.			.08%
Cochin, 375 lb bbls NY b.	.10		.101/2
Tanks, NY Ib.			.091/2
Manila bbls NY	.09%		.10
Tanks, NY lb.	009/		.08%
Tanks, Pacific Coast lb .	.08%		.08 1/2
Edible bbls N Y			.65
Cod Newfoundland, 50 gal bbls gal. Tanks, NYgal.	.62		.63
Cod Liver, see Cod Liver Oil under Ch			
	.06		.0614
Corn, ref. 375 lb bbls NY lb.			.111/2
Tanks D.			.111/2
Crude tanks mills	.091/4		.09%
Bbls. NY lb.	.10%	:	.11
Cottonseed Crude mill lb.		:	.08%
PSY 100 bbls spot Ib.			.101/4
DecMar 10.			.1014
White, 100 bbls lots NY Ib.		:	.111/2
Degras, Amer., 50gal bbls NY Ib.	.041/4	:	.041/2
English light bbls NY Ib.	.05 1/4	:	.05 1/2
Brown, bbls NY 1b.	.04%	:	.04%
Greases choice white bbls NY B.	4.4.4	*	.101/4
Yellow			.07%
Brown b.	.071/		.071/2
LARD OIL, edible prime D.	* * *		.161/4
Off prime bbls		:	.13%
			.13
Waster No. 1 bble 95			101/
Extra No. 1 bbls	***		.121/4
Extra No. 1 bbls		: !	9.6
LINSEED, raw c-l bbls spot Tb.		: 1	9.6 0.0
LINSEED, raw c-1 bbls spot Ib. Five bbls raw Ib. Tanks raw Ib. Menhaden tanks Balt gal	•••	: 1	9.6 0.0 8.8 ,46
LINSEED, raw c-l bbls spot To. Five bbls raw To. Tanks raw Do. Menhaden tanks Balt gal Light pressed, bbls NY gal		1	9.6 0.0 8.8 .46 .64
Linseed, raw c-1 bbls spot To. Five bbls raw To.	•••	: 1	9.6 0.0 8.8 .46 .64
LINSEED, raw c-l bbls spot To. Five bbls raw Ib.	.63	: 10	9.6 0.0 8.8 .46 .64 .67
LINSEED, raw c-1 bbls spot		: 10	9.6 0.0 8.8 .46 .64 .67 .90 .68
LINSEED, raw c-l bbls spot To. Five bbls raw D. Tanks raw D. Menhaden tanks Balt gal Light pressed, bbls NY gal Yellow pressed, bbls NY gal Blown bbls NY D. Extra bleached bbls NY gal Mineral Oil, white, 50 gal bbls gal Russian gal gal	 .63 .66 .67	: 10	9.6 0.0 8.8 .46 .64 .67
LINSEED, raw c-1 bbls spot To. Five bbls raw D. Tanks raw D. Menhaden tanks Balt gal Light pressed, bbls NY gal Yellow pressed, bbls NY gal Blown bbls NY gal Blown bbls NY gal Mineral 0il, white, 50 gal bbls gal Russian gal gal	 .63 .66 .67 .80	: 1	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 1.00 .18 34
LINSEED, raw c-1 bbls spot To. Five bbls raw D. Tanks raw D. Menhaden tanks Balt gal Light pressed, bbls NY gal Yellow pressed, bbls NY gal Blown bbls NY gal Blown bbls NY gal Mineral 0il, white, 50 gal bbls gal Russian gal gal	 .63 .66 .67 .80	: 10	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 1.00 .18 %4 .16 ½
LINSEED, raw c-1 bbls spot To. Five bbls raw D. Tanks raw D. Menhaden tanks Balt gal Light pressed, bbls NY gal Yellow pressed, bbls NY gal Blown bbls NY gal Blown bbls NY gal Mineral 0il, white, 50 gal bbls gal Russian gal gal	 .63 .66 .67 .80	: 10	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 1.00 .18 34
LINSEED, raw c-1 bbls spot To. Five bbls raw D. Tanks raw D. Menhaden tanks Balt gal Light pressed, bbls NY gal Yellow pressed, bbls NY gal Blown bbls NY gal Blown bbls NY gal Mineral Oil, white, 50 gal bbls gal Russian gal gal Neatsfoot 20 deg. ct., bblaNY D. CP bbls NY To. CP bbls NY To. CP bbls NY To. Oice Oil, No. 1 bbls NY To.	 .63 .66 .67 .80	: 10	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 1.00 .18 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
LINSEED, raw e-1 bbls spot To Five bbls raw To Tanks raw To Tanks raw To To Tanks raw To To Tanks raw To	 .63 .66 .67 .80 .95	: 1	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 1.00 .18 1/2 .12 1/2 .18 1/2 .18 1/2
LINSEED, raw c-1 bbls spot To Five bbls raw To Tanks raw To Tanks raw To Tanks raw To Tanks raw To	.63 .66 .67 .80 .95	: 10	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 1.00 .18 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
LINSEED, raw c-1 bbls spot To Five bbls raw To Tanks raw To Tanks raw To Tanks raw To Tanks Balt gal Light pressed, bbls NY gal Yellow pressed, bbls NY gal Blown bbls NY To Extra bleached bbls NY gal Mineral Oil, white, 50 gal bbls gal Russian gal gal gal Neatsfoot 20 deg. ct., bblsNY To CP bbls NY To CP bbls NY To CP bbls NY To Doice Oil, No. 1 bbls NY To Doice Oil, No. 1 bbls NY To No. 2 bbls NY To No. 3 bbls NY To Olive, denatured bbls NY gal.	.63 .66 .67 .80 .95	: 10	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 1.00 .18 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
LINSEED, raw c-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY gal Yellow pressed, bbls NY Extra bleached bbls NY Russlan gal Russlan gal Neatsfoot 20 deg. ct., bblsNY CP bbls NY CP bbls NY CP bbls NY CO Olico 0il, No. 1 bbls NY No. 2 bbls NY No. 3 bbls NY D OLIVE, denatured bbls NY gal. Edible, bbls NY B. Olico blle, value Colling Collin	 .63 .66 .67 .80 .95	: 10	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 1.00 .18 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
LINSEED, raw e-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY gal Hight pressed, bbls NY Extra bleached bbls NY High rest		110	9.6 0.0 8.8 .46 .64 .67 .90 .08 .90 1.00 .18 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
LINSEED, raw c-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY gal Yellow pressed, bbls NY Extra bleached bbls NY Balt Nessian gal Nessian gal Nessian gal Nessian gal Nestsfoot 20 deg. ct., bblsNY Pure bbls NY CP bbls NY D Extra bleached bbls NY Bleached bbls NY CO Bleached bbls NY CO Bleached bbls NY COLIVE, denatured bbls NY Bleached bbls NY	 .63 .66 .67 .80 .95	110	9.6 0.0 8.8 .46 .64 .67 .90 .08 .90 1.00 .18 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
LINSEED, raw e-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY gal Hight pressed, bbls NY Extra bleached bbls NY High rest		11	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 1.00 .18 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
LINSEED, raw e-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY Sal Yellow pressed, bbls NY Extra bleached bbls NY Blown bbls NY Extra bleached bbls NY Sal Mineral Oil, white, 50 gal bbls gal Russian gal Sal Nentsfoot 20 deg. ct., bblsNY Pure bbls NY Decr bbls NY Doce oil, No. 1 bbls NY No. 2 bbls NY No. 2 bbls NY Doleo Oil, No. 1 bbls NY No. 3 bbls NY Dolive, denatured bbls NY Sal Edible, bbls NY Sal Edible, bbls NY Sal Edible, bbls NY Palm Lagos, 1,500 B casks Nernel asks Do Pelm Kernel asks Do Pelm Kernel asks Do Peanut refined bbls NY Bb NY Do Peanut refined bbls NY Do Peanut Person Do Peanut refined bbls NY Do Peanut refined bbls NY Do Peanut Person Do Person		14	9.6 0.0 8.8 .46 .64 .67 .90 .08 .90 1.00 .18 ½ .16 ½ .18 ½ .12 ½ .14 ¼ 1.35 2.00 .09 % .08 .07 ¼ .09 %
LINSEED, raw c-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY gal Yellow pressed, bbls NY Beatra bleached bbls NY gal Mineral Oil, white, 50 gal bbls gal Russian gal Pure bbls NY CP bbls NY CP bbls NY Oice Oil, No. 1 bbls NY No. 2 bbls NY No. 2 bbls NY No. 2 bbls NY No. 3 bbls NY No. 1 bbls NY No. 2 bbls NY No. 2 bbls NY No. 2 bbls NY No. 3 bbls NY No. 1 bbls NY No. 2 bbls NY No. 2 bbls NY No. 2 bbls NY No. 3 bbls NY No. 1 bbls NY No. 2 bbls NY No. 3 bbls NY Palm Lagos, 1,500 fb casks Niger casks Decard bbls NY Palm Kernel asks Decard bbls NY Dec		11	9.6 0.0 8.8 .46 .67 .90 .68 .90 1.00 .18 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
LINSEED, raw c-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY gal Yellow pressed, bbls NY Beatra bleached bbls NY gal Mineral Oil, white, 50 gal bbls gal Russian gal Pure bbls NY CP bbls NY CP bbls NY Oice Oil, No. 1 bbls NY No. 2 bbls NY No. 2 bbls NY No. 2 bbls NY No. 3 bbls NY No. 1 bbls NY No. 2 bbls NY No. 2 bbls NY No. 2 bbls NY No. 3 bbls NY No. 1 bbls NY No. 2 bbls NY No. 2 bbls NY No. 2 bbls NY No. 3 bbls NY No. 1 bbls NY No. 2 bbls NY No. 3 bbls NY Palm Lagos, 1,500 fb casks Niger casks Decard bbls NY Palm Kernel asks Decard bbls NY Dec		11	9.6 0.0 8.8 .46 .67 .90 .68 .90 1.00 .18 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
LINSEED, raw e-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY Sal Yellow pressed, bbls NY Extra bleached bbls NY Pure bbls NY CP bbls NY No. 2 bbls NY No. 2 bbls NY No. 3 bbls NY No. 3 bbls NY No. 3 bbls NY No. 1 bbls NY No. 2 bbls NY No. 2 bbls NY No. 3 bbls NY No. 3 bbls NY No. 1 bbls NY No. 2 bbls NY No. 3 bbls NY D Palm Lagos, 1,500 B casks Niger casks D Palm Kernel asks D Peanut refined bbls NY D Perilla, bbls NY D Perilla, bbls NY D Perilla, bbls NY D Tanks Coast D		14:	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 .18 % .16 % .12 % .18 % .14 % .14 % .14 % .14 % .16 % .17 % .18 % .10 %
LINSEED, raw e-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY Yellow pressed, bbls NY Extra bleached bbls NY Pal Mineral Oil, white, 50 gal bbls gal Russian gal Nentsfoot 20 deg. ct., bblsNY Pure bbls NY Dextra bbls NY Do CP bbls NY No. 2 bbls NY No. 2 bbls NY No. 3 bbls NY Olice Oil, No. 1 bbls NY No. 3 bbls NY No. 3 bbls NY No. 3 bbls NY No. 3 bbls NY Do Olive, denatured bbls NY Sal Foots bbls NY Palm Lagos, 1,500 B casks Niger casks Deanut refined bbls NY Peanut refined bbls NY Peanut refined bbls NY Perilla, bbls NY Derilla, bbls NY Deroppyseed bbls NY Deroppyseed bbls NY Dall Poppyseed bbls NY Balt Salt Salt Salt Salt Salt Salt Salt S		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 .18 % .16 % .12 % .18 % .14 % .14 % .14 % .15 % .00 .09 % .00 .09 % .00 .00 % .00 % .16 % .17 % .17 % .18 %
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LINSEED, raw e-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY Sal Yellow pressed, bbls NY Extra bleached bbls NY Pure bbls NY CP bbls NY No. 2 bbls NY No. 2 bbls NY No. 3 bbls NY No. 3 bbls NY No. 3 bbls NY D CHUE, denatured bbls NY Blafflows NY D Palm Lagos, 1,500 B casks D Palm Kernel asks D Peanut refined bbls NY Bo Crude, bbls NY D Peilla, bbls NY D Peilla, bbls NY D Poppyseed bbls NY By Rapeseed bbls NY Rapeseed By Rapeseed bbls NY Rapeseed By Rapeseed By		11/2	9.6 0.0 8.8 .46 .64 .67 .90 .68 .90 .18 % .16 ½ .12 ½ .18 % .14 ¼ 1.35 2.00 .09 % .09 % .09 % .12 ½ .13 % .14 ¼ .14 ¼ .15 % .12 ½ .16 % .17 % .18 % .17 % .18 %
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LINSEED, raw e-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY gal Yellow pressed, bbls NY Extra bleached bbls NY Balt Mineral Oil, white, 50 gal bbls gal Russian gal Neatsfoot 20 deg. et., bblsNY Pure bbls NY CP bbls NY CP bbls NY Oice Oil, No. 1 bbls NY No. 2 bbls NY No. 2 bbls NY Olive, denatured bbls NY Edible, bbls NY Palm Lagos, 1,500 th casks Name of the bols NY Palm Kernel asks Denature fined bbls NY Perilla, bbls NY Perilla, bbls NY Rapseed bbls NY Rale Rapseed bbls NY Rale Rale Oil, distilled bbls Tanks Tanks Doll oil, distilled bbls Tanks Tanks Doll oil, distilled bbls Tanks Tanks Doll oil oil oil oil oil oil oil oil oil		1000 %:	9.6 0.0 8.8 .46 .67 .90 .68 .90 .18 % .16 ½ .12 ½ .18 .16 ½ .14 ¼ .135 .2.00 .09 % .09 % .09 % .12 ½ .13 % .12 ½ .13 % .14 % .15 % .15 % .16 % .17 % .18 %
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Tanks raw D. Tanks raw D. Menhaden tanks Balt gal Light pressed, bbls NY gal Yellow pressed, bbls NY gal Blown bbls NY D. Extra bleached bbls NY gal Mineral Oil, white, 50 gal bbls gal Russian gal gal Neatsfoot 20 deg. ct., bblnNY lb. Pure bbls NY D. CP bbls NY D. CP bbls NY D. Oice Oil, No. 1 bbls NY D. No. 2 bbls NY D. No. 2 bbls NY D. No. 3 bbls NY D. Olive, denatured bbls NY gal. Edible, bbls NY D. Viger casks D. Palm Lagos, 1,500 lb casks D. Niger casks D. Palm Kernel asks D. Peanut refined bbls NY D. Crude, bbls NY D. Crude, bbls NY D. Perilla, bbls NY D. Perilla, bbls NY D. Poppyseed bbls NY D. Poppyseed bbls NY D. Rapeseed bbls NY D. Salmon, 8,000 gal ths Coast .gal Sardine, Tanks Pacils Coast gal Sardine, Tanks Pacils Coast gal		16 6 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9.6 0.0 8.8 8.4 6.64 6.67 90 6.68 90 1.00 1.8% 1.6% 1.12% 1.35 2.00 0.9% 0.09% 0.15% 1.12% 1.3% 1.11 1.75 82 nom 1.03 1.09%
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LINSEED, raw e-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY gal Light pressed, bbls NY Bown bbls NY Extra bleached bbls NY Bown bbls NY Extra bleached bbls NY Bown bbls NY		16 16 16 16 16 16 16 16 16 16 16 16 16 1	9.6 0.0 8.8 8.4 6.64 6.67 9.0 6.68 9.0 1.00 1.8 1.6 1.2 1.2 1.4 1.3 1.2 1.4 1.3 5 2.00 0.9 5% 0.0 5.0 0.9 5% 1.2 1.4 1.3 1.3 1.1 1.75 8.2 1.8 1.0 1.3 1.4 1.1 1.75 8.2 1.1 1.75 8.2 1.1 1.75 8.2 1.1 1.75 8.2 1.1 1.75 8.2 1.1 1.75 8.2 1.1 1.75 8.2 1.1 1.75 8.2 1.1 1.75 8.2 1.1 1.75 8.2 1.1 1.75 8.2 1.1 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7
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LINSEED, raw e-1 bbls spot Five bbls raw Tanks raw Menhaden tanks Balt Light pressed, bbls NY Al Yellow pressed, bbls NY Bl Blown bbls NY Extra bleached bbls NY Bl Mentsfoot 20 deg. ct., bblsNY Pure bbls NY CP bbls NY Bo CP bbls NY C		· 1000000000000000000000000000000000000	9.6 0.0 8.8 8.4 64 67 90 68 90 1.00 1.8% 1.6% 1.2% 1.8 1.4 1.4 1.35 2.00 0.9 % 0.09 % 0.7 1.2 1.3% 1.1 1.75 82 nom 1.03 1.03 1.03 1.1 1.75 82 1.03 1.1 1.75 82 1.03 1.03 1.03 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09
Tanks raw D. Tanks raw D. Menhaden tanks Balt gal Light pressed, bbls NY gal Yellow pressed, bbls NY gal Blown bbls NY bb Extra bleached bbls NY gal Mineral Oil, white, 50 gal bbls gal Russian gal gal Neatsfoot 20 deg. ct., bblsNY lb. Pure bbls NY D. CP bbls NY D. CP bbls NY D. Oice Oil, No. 1 bbls NY lb. Extra bbls NY D. Oice Oil, No. 1 bbls NY lb. No. 2 bbls NY lb. No. 2 bbls NY lb. No. 3 bbls NY lb. No. 2 bbls NY lb. No. 2 bbls NY lb. No. 3 bbls NY lb. No. 3 bbls NY lb. No. 3 bbls NY lb. Polive, denatured bbls NY gal. Edible, bbls NY gal. Foots bbls NY lb. Palm Lagos, 1,500 lb casks lb. Peanut refined bbls NY lb. Palm Kernel asks lb. Peanut refined bbls NY lb. Tanks Coast lb. Poppyssed bbls NY lb. Tanks Coast lb. Poppyseed bbls NY gal Repesed bbls NY gal Repesed bbls NY gal Roll, distilled bbls lb. Salmon, 8,000 gal tks Coast gal Sardice, Tanks Pad'4 coast gal Sesame edible yellow bbls lb. White lb. Sod Oil, bbls NY gal		· 1000000000000000000000000000000000000	9.6 0.0 8.8 8.4 64 67 90 68 90 1.00 1.8% 1.6% 1.2% 1.8 1.4 1.4 1.35 2.00 0.9 % 0.09 % 0.7 1.2 1.3% 1.1 1.75 82 nom 1.03 1.03 1.03 1.1 1.75 82 1.03 1.1 1.75 82 1.03 1.03 1.03 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09

York are at 62c@63c gal. Corn Oil - Crude oil is reported to be somewhat scarce and following the trend of cottonseed has advanced in price. Crude oil in tanks

at the mills is quoted at 91/4c@93/8c

at 63c@65c gal., while tanks at New

lb., while barrels at New York are

at 103/4c@11c lb. Cottonseed Oil - Has made a very strong recovery since last reported. On Saturday, crude oil was at 834c lb., while PSY was at 1014c lb. in a steady market, an advance of ½c lb. since last reported here. Average Jan.-Mar. price was also 101/4c lb.

Greases - Choice white and brown have advanced in price, the former being quoted at 101/4c lb. and the latter at 71/4c@71/2c lb. Yellow is unchanged at 73/4c lb.

Linseed Oil - Conditions continue exceptionally quiet without any price changes. Spot is now 9.6c 1b., raw oil in tanks, 8.8c lb., while the five-barrel price is 10.0c lb.

Neatsfoot Oil - Twenty degree cold-test has advanced to 1834c lb., but other grades remain unchanged in price. Pure is quoted at 161/2c 1b., CP at 181/2c lb., and extra at 12½c lb.

Olive Oil - Spot price on denatured oil is unchanged at \$1.35 gal. Foots is also firm at 91/2c@95/8c lb.

Palm Oil - Interest is increasing due to strong position of tallow. Prices, however, are as yet unchanged. Lagos being quoted at 8c 1b. and Niger at 71/8c@71/4c 1b.

Rapeseed Oil - A surplus is reported in Japanese, although no price changes have been reported since last week. Japanese is at 80c@82c lb., blown is unchanged at \$1.01@\$1.03 lb., while English is purely nominal.

Tallow - Extra has advanced to 83/4c lb. and is reported to be in an extremely strong position. Most factors believe that it is headed for a 9c market after the first of the year. Even now it is said to be in a much stronger position than is generally known and that al sales and prices have not been reported. Edible remains unchanged at 11c 1b.

INDUSTRIAL RAW MATERIALS

Albumen - All grades of albu men are very quiet and the littl amount of demand seen is confine to single drum lots. Prices are ur a changed and appear firm owing to

Sperm 38° ct., blehd, bbls NY gal			
STEARIG ACID		•	.00
Double pressed, bags dist ID	.113	4:	.111%
Double pressed, bgs saponi % ed Ib	.113	6:	.12
Carlots lb .		:	.11
Triple pressed bgs dist Ib.	.133	4:	.131/
Carlots ID			.13
Stearine Oleo bbls b.		:	.10%
Tallow edible tierces Tb.			.11
City, Extra loose lb.		:	.08%
Tallow Oil, acidless the NY Ib.			
Bbls c-l NY Ib.		:	.11%
Whale, nat winter bbls NYgal	.76		.78
Blehd, winter bbls NYgal	.78	:	.80
Extra blehd bbls NYgal	.80	:	.82
Turkey Red, Oil, single bbls Ib	.11	:	.12
Double D	.14	:	.16

Indevetals 1

١	Industrial			
١	Raw Material	8		
1	Albumen, egg edible Ib. Tech., 100 lb drs Ib. Rlond, 225 bbls Ib.			.82
1	Tech., 100 lb drs lb lb lb lb	45		.80
1	Vegetable edible	.60	9	.65
١	Technical Ib	.50	:	.55
١	Archil double 600 bble Th	.41		.48
ı	Triple, 600 lb bbls lb.	.14	:	.15
	Con, 600 lb bbls	.16		.18
	Bees Wax, white cases	.56	: 14	.58
1	Yellow, refined cases Tb.	.42		.43
1	Blood dried fob NYunit	.37		.38
1	Chicagounit		: 8	.00
1	Bone Raw. Chicago ton 2	9.00	: 4	1.95
	Bone Meal, 3 & 50 impton 3	2.00	: 37	7.00
Ц	Bone Ash 100 lb kegs lb	.06	:	.07
1	Technical ID Annatto, fine D. Annatto, fine D. Archil., double 600 bbls D. Triple, 600 ID bbls D. Con, 600 ID bbls D. Con, 600 ID bbls D. Con, 600 ID bbls D. Condes Wax, white cases D. Yellow, refined cases D. Crude, bags D. Blood dried fob NY unit Chicago unit S Am Shipment unit Bone Raw, Chicago ton 2 Bone Meal, 3 & 50 imp ton 3 Bone Ash 100 ID kegs D. Black 200 ID bbls D. Carnauba Wax Flor bags D. Carnauba Wax Flor bags D. No. 1 Yellow, bags D. No. 2, regular bags D. No. 2, regular bags D. CHARCOAL	.27	:	.28
	Carnauba Wax Flor bags ID	.50	:	nom.
1	No. 1 Yellow, bags Ib.	.59	:	.60
-	No. 2, N. Country bags D.	.36		.38
	CHARCOAL			
	Hardwood, lump, bulk wksbu	.18	:	.19
3	Willow, powd, 100 fb wks bbls fb	.04	:	.05
	Chestnut clarified 25% the wks To	.02	:	.02 1/4
	Powd 60% 100th have wise the	* * *	:	.021/2
- 1	Decolorized bags wks Ib .	.051/2	:	.06
0	Cudbear, English	.16	:	.17
	Cutch Rangoon, 100 m bales . m.	• • • •	:	.181/
-	CHARCOAL Hardwood, lump, bulk wksbu Wood,powd., 100 lb bbls lb Willow, powd. 100 lb wis bbls lb Chestnut clarified 25% tks wks lb Bbls. wks lb. Powd., 60% 100 lb bags wks lb. Decolorized bags wks lb. Cutch Rangoon, 100 lb bales lb Corder solid 100 lb bales lb Cyanamide, bulk, c-1 wks Amm unit	.06	:	.07
0	Cyanamide, bulk, c-1 wks Amm unit Dextrin, white corn 140 lb bags	* * *	:	1.67 1/2
d	c-1100 m		:	3.72
t	Potato white 220 h here 1e.1 m	b		3.77
t	Yellow, 220 D bags . D		:	.0816
S	Tapioca, 200 bags 1d 1 Ib	.08	:	.0814
	Pods, bags ship	.04	: n	om.
0	Egg Yolk, 200 lb cs To	.76		77
n	Cyanamide, bulk, c-1 wks Amm unit Dextrin, white corn 140 m bags c-1	.13	4 :	.14
t	Light 280 bbls	.14	:	.1434
r	Acid Rulk 7 & 21/ Dalts	.14	*	nom.
e	Light 280 bbls		:	nom.
e	Norfolk & Balt basisunit Flavine Lemon 55 lb cslb Orange 70lb cslb.	1.10	:	1.15
n	Brange 701b cs	1.10	:	1.15
11	Fossil Flour ID Fustic, solid 50 ID boxes ID Crystals, 100 boxes ID Liquid 51° 600 ID bbls ID	.021	1/2:	.04
-	Crystals, 100 boxes Ib	.20	:	.22
d	Liquid 51° 600 m bblsm	.09	:	.10
	Fustic, sticks ton Chips	30.00		32.00
	Gall extract D.	.20	:	.21
	Gambier 25% liq., 450 m bbls m	.12	:	14
	Singapore, cubes 150 h hace To	.08	:	.09
	Gall extract	45		.12
u-	bags e-1 NY100 fb	3.14		3.24
le				
ed	80° bags c-1NY100 m Tanners' Spel 100 bgs 100 m GLUE, pure white bbls fb Medium white, bbls fb	3.24	:	3.34
n-	GLUE, pure white bhla	.22		.26
)	Medium white, bbls b	.20	:	.24

Mallinekrodt SERVICE in Supplying Chemicals

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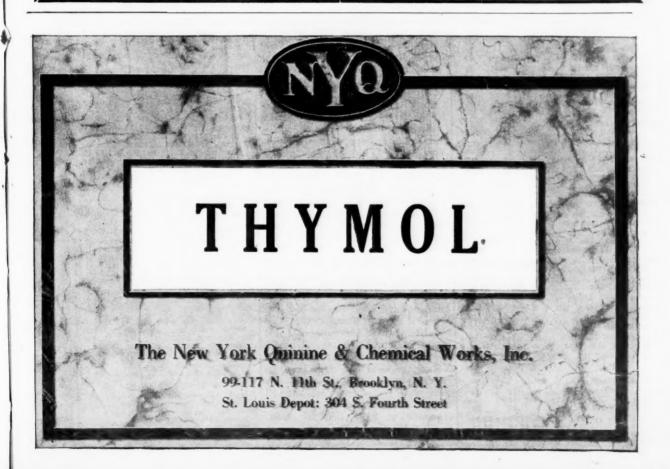
MALLINCKRODT CHEMICAL WORKS

SAINT LOUIS

MONTREAL

PHILADELPHIA

NEW YORK



Towarderd, 1500 by by Dot	Vhiti	ing (
Permitted 160 Bas D 36 3684 Archill Movement is very light at unchanged prices of 12c 15. for Glissey, 250 Cases D 50 50 50 50 50 50 50	7 :	.07%
Animal (Sanabas) Bean and pas Giasay, 2300 posses b. 5.0	.6 :	.17
250 10 10 10 10 10 10 10	2 :	.15
Apphaltum		
Blood — The only change in the week's market occurred in the week's market occurred in the week's offerings at \$5.00 unit failed to produce any sizable amount of business and holders reduced their asking price to \$4.95 unit. The domination of the plate R L hold b. 17 174, Pale, E I. Chip b 17 174, Pale, E I. Chip b 18 15	1634: 1734:	.06%
Gillocatie selecta 1909 bys tos 55.00 50.00 Bernardin, Sumark, Tech., 1201 b. 33 .35 Casis .35 .36 Light Amber .35 .36 Light Amber .35 .36 Light Amber .35 .36 Light Amber .36 .37 Light Amber .37 .38 Light Amber .37 .38 Light Amber .38 .35 Light Amber .38 .35 Light Amber .38 .35 Light Amber .38 .35 Light Amber .36 .35 Light Amber .36 .36 Light Amb	8 : 8%:	.10
Cosal Cosago 112 mb bs 35 35 Cosal Cosago 112 mb bs 35 35 Cosal Cosago Cosago 112 mb bs 35 35 Cosal Cosago Cosago 112 mb bs 35 35 Cosal Cosago	. :	9.00
Construction Cons	00 :	3.15
Dark Amber Dark D		3.65 4.15
Cogal, East Indian 224	. :	5.00
Copal East Indian 224 December 180 Desperation 180		6.25
Paie, E. I. Bold		5.00
No. Description Descript	63 :	.64 10.60
A comparison of the comparis	:	3.30
Pale Bold, Nohs, Lohs B.	04 1/4 : 04 :	.06
Pals, Bold, Loba C	021/4:	.03
Pale Nubs, P. N	03 1/4:	.031/
Captile Capt	04 :	.05
Pale gendurline poot chips D .13 .14% Damma Batavia standard D .23 .23% Batavia E Secch 136 D cm D .23 .23% Batavia E Secch 136 D cm D .17 .17% Batavia Dast, 160 D bags D .10% .11% Singapore No. 224 D cm D .30 .30% Singapore No. 2244 D cm D .30 .30% Singapore No. 2244 D cm D .30 .30% No. 2, 80-85 D cases D .13 .13% .16 No. 2, 80-85 D cases D .13 .13% .16 No. 2, 80-85 D cases D .13 .13% .16 No. 2, 80-85 D cases D .15 .18 .18 Cases D .24 .26 D cases D .24 .26 Brown Chips 180-200D bpib .10 .12 .26 Sandaras Prime quality 220 D bags and 300lb caks D .26 .27 Graphite eruse 2200 bags .10 .16.00 .20% paste drums D .14 .15 .16 Singapore No. .224 bc cm D .00 .20% paste drums D .14 .15 .16 Solid for when present conditions are relieved. Glues — Also on a quiet basis and with movement confined to less and with movem	05 :	.05 1/2
Damar Batavia standard 136 lb cases lb .23 .23 .23 .24 .24 .24 .25	05½: 10 :	
Batavia E Seeds 136 lb cases lb 1.23 1.23 1.23 1.23 1.24 1.24 1.24 1.25	:	14.00
## Batavia # Beliniters 136		35.00
Bataria, Dust, 160 b bags b . 10½: 11½ Singapore No. 1 224 lb cs . b 30 . 30½ Singapore No. 2, 2244 b cs . b 30 . 30½ Singapore No. 2, 2244 b cs . b 30 . 30½ Singapore No. 2, 2244 b cs . b 30 . 30½ Singapore No. 3, 180 b bags b . 14 : .15 Elemi, No. 1, 80-85 b b cs . b 13 . 13½; No. 2, 80-85 b b cs . b 13 . 13½; No. 2, 80-85 b b cs . b 13 . 13½; No. 2, 68-85 b cs . b 13 . 13½; No. 2, fair pale 224-226 b cs . b 50 . 57 No. 2, fair pale 224-226 b cs . b 50 . 57 No. 2, fair pale 224-226 b cs . b 35 . 38 Buth Chips 224-226 b cs . b 35 . 38 Buth Chips 224-226 b cs . b 35 . 38 Buth Chips 224-226 b cs . b 30 . 20½ Singapore No. 3, 180 b bags and 300h casks . b 20 . 27 Graphtle erude 220 b bags . b 10 . 112 Crystals, 600 b bbls . b 17 . 20 Hemlock, 25% 600 b bbls . b 17 . 20 Hemlock, 25% 600 b bbls . b 14 . 15 Bark was 224 b cs . b 18½ . 1.99 KIESELGHR, 95tb bg NY. ton 600. 76, 08 . 00, 100 b bags whs . b 08½ . 08 Solid, 60 lb boxes . b 18½ . 1.99 Legwood 51° 800 b bbls . b 08½ . 08 Solid, 60 lb boxes . b 380 . 09 Legwood 51° 800 b bbls . b		
Singapore No. 1 224 1b cs		. 7.60
Singapore No. 2, 224		. 9.50
Japan Wax — The recent flurry of activity has subdued but prices remain in the same position. Spot selers are quoting 18½c@19c lb. but some business has been done at 18c lb. Pale Chips 224-226 b cases b. 38 .44 26 Brown Chips 180-200 b bps b. 10 .12 Sandarae Frime quality 220 b bags and 300 beaks b. 26 .27 Graphite crude 220 b bags ton 15.00 35.00 Flake, 500 b bbls b. b. 5.00 blis b. 17 .20 Hemlock, 25% 600 b bbls b. b. 17 .20 Hemlock, 25% 600 b bbls b. b. 18 .16 .20 .27 .20 .27 .20 .27 .20 .20 .27 .20	a based	.10.50
No. 2, 80-85 ble cases b. 13 13 13 13 18 18 12 13 13 18 18 12 13 18 18 12 13 18 18 12 13 18 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 10 18 18 19 19 10 18 18 19 19 10 18 18 19 19 10 18 18 19 19 10 18 18 19 19 10 18 18 19 19 10 18 18 19 19 10 18 18 19 19 10 18 18 19 19 10 18 18 19 10 18 18 19 19 10 18 18 19 19 10 18 18 19 19 10 18 18 19 19 10 18 18 19 19 10 18 18 19 19 19 19 19 19		
Rauri No. 1, 224-226 b cs. m.	:	
Bush Chips 224-226 b cases b .38 .46	07 :	
Bush Chips 224-226 b cases b .38 : .48 Pale Chips 224-226 b cases b .24 / 26 Brown Chips 180-200 b bgs b .10 : .12 Sandarac Prime quality 220 b bags and 300lb casks . b . 26 : .27 Graphite crude 220 b bags ton 15.00 : 35.00 Flake, 500 b bbis b .05 : .09 HEMATINE, Paste, 500lb bbis b .17 : .20 Hemlock, 25% 600 b bbis b .17 : .20 Hemlock, 25% 600 b bbis b .12 : .15 Indigo Madras bbis b .12 : .15 Indigo Madras bbis b .12 : .15 Indigo Madras bbis b .18 / .19 KIESELGUHR, 95 b bgs NY ton 60.00 : 70.00 Larch 25% 600 b bbis ws b .08 : .09 Logwood 51° 600 b bbis ws b .08 : .09 Logwood 51° 600 b bbis b .08 : .09 Logwood 51° 600 b bbis b .08 : .09 Chips 150 b bags ton 20.00 : 27.00 Chips 150 b bags ton 20.00 : 27.00 Chips 150 b bags ton 20.00 : 27.00 Marble Flour bulk ton 10.00 : 13.00 Marble Flour bulk ton 10.00 : 13.00 Marble Flour bulk ton 10.00 : 13.00 In the chips 24-226 b cases b .24 / .26 Brown Chips 180-200 b bgs b2627 Bage Flour 150 b bags b2427 Bage flour 150 b bags b2627 Bage fl	.02 :	.05
Pale Chips 224-226 B Cases Cases B Cases Cases B Cases Cases B Cases	041/4:	.05
Brown Chips 180-200 bags 10 12 12 Sandarac Prime quality 220 B bags and 300lb casks B .26 .27 Graphite crude 220 B bags ton 15.00 .35.00 Flake, 500 B bbls .05 .09 HEMATINE, Paste, 500lb bbls B .11 Crystals, 400 B bbls .10 .15 .15 .16 .17 .18 .19	54 :	.55
Spruce 220 B bags ton 15.00 35.00 Flake, 500 B bags ton 15.00 35.00 HEMATINE, Paste, 500 B bags ton 17 20 Hemlock, 25% 600 B bags ton 1.20 Hemlock, 25% 600 B bags ton 1.20 Harberole, 51% 600 B bags ton 1.22 1.55 Indigo Madras bags ton 1.28 1.30 Logwood 51% 600 B bags was B ton 1.24 Logwood 51% 600 B bags was B ton 1.24 Logwood 51% 600 B bags ton 1.24 Logwood 51% 600 B ton 1.24 Logwood 51% 600	.53 :	.55
Flake, 500 lb bbls	.62 : .01 :	
HEMATINE, Paste, 500lb bbls D	.02	.01%
Hemlock, 25% 600 m bbls wis. m. 031/4: 03% Bark ton 16.00 Hyperale, 51° 600 m bbls m. m. 12: 1.15 Indigo Madras bbls m. 12: 1.25 Solid powd m. 12: 1.25 Sapan Wax 224 lb cs m. 181/4: 1.15 KIESELGUHR, 95 m bgs NY. ton 60.00 70.00 Larch 25% 600 m bbls wis. m. 03%: 04 Powd 100 m bags wis. m. 08%: 04 Lower gradem m. 081/4: 0.88 Solid, 50 lb boxes m. 081/4: 0.88 Commod 51° 600 m bbls m. 081/4: 0.88 Solid, 50 lb boxes m. 081/4: 0.88 Commod 51° 600 m bbls	.0914:	.10
Hypernic, 51° 600 mb bils mb 12 15 Indigo Madras bils mb 14 15 Solid powd mb 14 15 Solid powd mb 14 15 Indigo Madras bils mb 14 15 Solid powd mb 16 Indigo Madras bils mb 18 Indigo Madras Market Port manufactory of the market for T. N. is 54c@ 55c fb., superfine 57c@58c lb. garnet 53c@55c lb. and bone dry 62c 664c lb. Sodium Nitrate — The market remains in a dull position with very little buying to feature it. Prices Indigo Madras bils mb 18 Indigo Madras Market Port market for T. N. is 54c@ 53c@55c lb. and bone dry 62c 664c lb. Sodium Nitrate — The market remains in a dull position with very little buying to feature it. Prices India Market Port market for T. N. is 54c@ 18 India Market Port	:	3.07 2.97
Indigo Madras bbls ID 1.28 : 1.30 20% paste drums ID 14 : 1.5 Solid powd ID 07½ 08 Japan Wax 224 lb es ID 18½ 19 KIESELGUNR, 95 ID bgs NY ton 60.00 70.00 Larch 25% 600 ID bbls wis ID 08½ 04 Powd 100 ID bags wis ID 08½ 08½ 08 Logwood 51° 600 ID bbls ID 08½ 08½ 08 Logwood 51° 600 ID bbls ID 08½ 08½ 08½ 08½ 08½ 08½ 08½ 08½ 12½	.06 %:	.06%
20% paste drums	.06 14:	.07
Japan Wax 224 lb cs	.09¼: .08 :	.081/4
Larch 25% 600 m bbls whs m .03%: .04 Fowd. 100 m bags whs m .08%: .09 Logwood 51° 600 m bbls m .08%:	.051/2:	
Powd. 100 Dougs wks Dougle Do		nom.
Lower gradem		: 72.00 : 60.00
Logwood stiels ton 26.00 : 27.00 Sodium Nitrate — The market remains in a dull position with very little buying to feature it. Prices Mardler Flour bulk ton 10.00 : 13.00 Sodium Nitrate — The market remains in a dull position with very little buying to feature it. Prices Talkage ground NY ton 30 Befined 100 b bags NY ton 16 Talkage ground NY unit 5.	.00 :	: 50.00 : 55.00
Chips 150 to bags	.00 :	: 35.00
Madder, Dutch	.00 :	: 45.00 : 15.00
	.00 :	: 18.00 k .10
Mangrove Bark, Africanton 40.00 : 42.00 are maintained at \$2.40 100 lbs. for High grade fob. Chicagounit 3	.85 &	k .10
Mangrove 55% 400 m bbls m .03 1/2: nom. bulk lots and \$2.45 100 lbs. for car- lots. It is not thought, that this Taploca Flour, high grade bgs. m	.04 1/2	
Bleached bags	.03%	: .04
Myrobalans 25% liquid bbis 10	3.50	
Myrobalans, bags, J1ton: 48.00 tivity might cause an advance.		: 3.00 : .51¾
J2	.46	
Nitrogenous Material bulkunit: 3.35 Changes in the market, some sales Valonia Cups 30-31% tanton		: nom
NUTGALLS, Chinese, bags b .17 : .18 were made f.o.b. New York at \$5.10 Beard, 42% ton bagston Aleppy bags b .25 : nom. Aleppy bags and 10c unit and Chicago quotations with Park bagston		: nom
Powd. bags		: 72.00 : .053
Ground		: 1.25 : 13.00
Oak, tanks wks		: 1.35



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ACIDS—Tannic, 12 brls., E. M. Sergeant Co., Hamburg ALUMINUM POWDER-6 drs., O. Hom-

ALUMINUM POWDER—6 drs., O. Hommel & Co., Bremen

ALBUMEN—56 cs., Standard Bank of So.
Africa, Hankow; Egg, 11 cs., Dodwell & Co., Shanghai; 56 cs., Hans Hinrichs Chem Co., Shanghai; 56 cs., Hans Hinrichs Co., Hankow; 56 cs., Stein Hall & Co., Tientsin; 56 cs., Stein Hall & Co., Tientsin; 9 powder, 1 cse., J. Morningstar & Co., Hamburg

AMMONIUM SALTS—Carbonate, 19 pgs., Standard Bank of So. Africa, Liverpool; Chlorate, 55 cs., Solvay Sales Corp., Liverpool; Sourel, 3 cks., Mallinckrodt Chem orks, Havre

ANTIMONY—Ctude, 735 cs.. ah Chang

Liverpool; Sourel, 3 cks., Mallinckrodt Chem orks, Havre ANTIMONY—Crude, 735 cs., ah Chang Trdg Co., Kobe; 330 cs., ah Chang Trdg Co., Kobe; 330 cs., ah Chang Trdg Co., Hankow; 460 cs., Harshaw Fuller & Goodwin. Shanghai; 150 cs., Nippon Yusen Kaisha, Shanghai; 150 cs., Nippon Yusen Kaisha, Shanghai; 164, 44 cs., Melchers Inc, Kobe; Ore, 1216 bgs., atson Geach & Co., Antofagasta; Oxide, 250 bgs., Sino Java Hvg., Hankow; 250 bgs., A. Klipstein & Co., Kobe; 50 bgs., ah Chang Trdg Co., Kobe; Regulus, 250 cs., W. R. Grace & Co., Shanghai; 250 cs., order, Shanghai

Arecibo
ARSENIC—68 brls., American Smelting
& Refining Co., Tampico
CALCIUM—Lactate, 10 cs., Davies Turner & Co., Hamburg
CARBONS—57 cs., H. Reisinger, Bremer
CASEIN—280 sks., Atterbury Bros., Wellington; 500 sks., Atterbury Bros., Havre;
250 bgs., Hanover Nat Bank Buenos
Aires

CELLULOSE-Acetate Fibre, 530 sks.,

Aires
Celluloid Corp., Liverpool
CHALK—100 bgs., C. M. Chrystal, Antwerp; 1500 bgs., Hammill & Gillespie, Antwerp; 5589 bgs., Taintor Trdg Co., Antwerp; 500 tons, Taintor Trdg Co., London; 1254 bgs., Nat City Bank, Antwerp; 500 tons, Taintor Trdg Co., London; 1254 bgs., Nat City Bank, Antwerp CHEMICALS—200 brls., Hummel & Robinson, Bremen; 3 cs., Pialtz & Bauer, Hamburg; 23 cs., Eimer & Amend, Hamburg; 55 brls., Hummel & Robinson, Hamburg; 15 brls., H. Falck & Co., Hamburg; 15 brls., Hummel & Robinson, Hamburg; 25 cks., Pfaltz & Bauer, Hamburg; 25 cks., Pfaltz & Bauer, Hamburg; 25 cks., H. Sundheimer, London; 36 cks., Whittaker Clarke & Daniels, Rotterdam; 81 cks., Hummel & Robinson, Rotterdam

CINCHONIDINE-10 cs., R. W. Greeff & CINCHONINE—5 cs., R. W. Greeff & Co.,

Rotterdam COBALT-Sulfate, 40 brls., African Met-

COBALT—Sulfate, 40 brls., African Metals Corp., Antwerp
COLORS—I cse, National Aniline & Chem
Co, Antwerp; 34 cks., Carbic Color &
Chem Co., Havre; 4 cks., Geigy Co.,
Havre; 28 cks., Ciba Co., Havre; 2 cks., Chem Nat Bank, Havre; 3 cks.,
Interstate Trust Co., Havre; 7 cs., Sandoz
Chem Works, Havre; 3 cks. General DyeDyestuff Corp., Hamburg; Bronze Powder, 24 cs., Baer Bros., Hamburg; 11 cs.
Bryant & Hefferman, Bremen; 17 cs.,
Hensel Bruckmann & Lorbacher, Bremen; 2 cs., B. F. Drakenfeld Co., Bremen; 21 cs., A. Hurst Co., Bremen; 21 cs., A. Hurst Co., Bremen; 12 cs., T. D. Downing & Co., Bremen; 5 cs.,
G. P. Seide, Hamburg; Coal Tar, 1 cse.,
Grasselli Dyestuff Corp., Hamburg
COPPER—Oxide, 8 cks., Federal orp.,
Liverpool

DIETHYSULFATE-2 cs Intersped Agen-

DRIED BLOOD-419 bgs., H. J. Baker &

Bro., Buenosc Aires

EXTRACTS—Quebracho, 2342 bgs., Tannin
Corp., Buenos Aires; 1021 bgs., J. C.
Andresen, Buenos Aires; 1929 bs., J. C.
Andresen, Buenos Aires; Seaweed, 54
bgs, National Gum & Mica Co, Liver-

GALLNUTS—740 bgs., 1 cse, McKesson & Robbins, Shanghai; 147 bgs, Bingham & Co., Hankow GELATINE—200 bgs., T. W. Dunn & Co., Bremen; 3 cs., Eastman Kodak Co.,

GLAUBER SALT-250 brls., Monmouth Chem Corp., Hamburg GLUE-400 bgs., W. R. Grace & Co., San

Antonio
GLYCERINE—64 cks., Amtorg Trdg Corp
Hamburg; 20 drs., Lo Curto & Funk,
Hamburg; 31 drs., American Express
Co., London; 34 drs., G. Uhe, Rotter-

Hamburg; 31 drs., American Express Co., London; 34 drs., G. Uhe, Rotterdam

GRAPHITE—37 brls., H. P. Winter & Co., Colombo; 73 brls., J. Dixon Crucible Co., Colombo; 333 bgs., Brown Bros. & Co., Colombo; 600 cks., G. F. Pettinos, Moji; 1875 bgs., Mitsui Bussan Kaisha, Fusen GUMS—Arabic, 12 brls., W. Mohrman Co., Antwerp; 561 bgs., Mirs. Trust Co., Port Sudan; Copal, 2635 bgs., L. C. Gillespie & Co., Matadi; 220 bgs., Brown Bros & Co., Antwerp; 260 sks., France Campbell & Darling, Manila; 64 bgs., Guaranty Trust Co., Singapore; 100 cs., 128 bgs., Baring Bros., Singapore; 19 bgs., Kidder Peabody Acceptance Corp., Antwerp; 227 bgs., W. Schall & Co., Antwerp; 500 bgs., Brown Bros & Co., Antwerp; 500 bgs., Brown Bros & Co., Antwerp; 500 bgs., Brown Bros & Co., Antwerp; 500 cs., L. C. Gillespie & Sons, Singapore; 192 bgs., Brown Bros & Co., Singapore; 50 cs., L. C. Gillespie & Sons, Singapore; 192 bgs., Brown Bros & Co., Singapore; 192 bgs., Brown Bros & Co., Singapore; 194 bgs., France Campbell & Darling, Singapore; Elemi, 258 cs., order, Manila; Kauri, 40 cs, 170 sks Strook & ittenborg Auckland; 100 cs., 250 sks Paterson Boardman & Knapp, Auckland; 21 cs., G. W. S. Patterson Co., Auckland; 100 cs., 250 sks Paterson Boardman & Knapp, Auckland; 21 cs., G. W. S. Patterson Co., Auckland; 100 cs., 250 sks., L. C. Gillespie Co., Auckland; 155 cs., Aukland; 171 cs., 169 bgs., L. C. Gillespie Co., Auckland; 171 cs., 169 bgs., L. C. Gillespie Co., Auckland; 171 cs., 169 bgs., L. C. Gillespie Co., Auckland; 171 cs., 169 bgs., L. C. Gillespie Co., Auckland; 171 cs., 169 bgs., L. C. Gillespie Co., Auckland; 171 cs., 169 bgs., L. C. Gillespie Co., Auckland; 180 Livie Commerce, Auckland

Auckland
IRON OXIDE—100 brls., Hummel & Robinson, Malaga; 52 cks., Reichard Coulston Inc. Liverpool
LITHOPONE—15 cks., Whittaker Clarke & Daniels, Rotterdam; 4 cks., B. Moore Co., Rotterdam
MAGNESIA—Calcined, 61 cks., Schofield Donald & Co., Liverpool
NICKEL—Sulfate, 179 cks., Gallagher & Ascher, Havre
OCHRE—1000 bgs., F. B. Vandegrift & Co, Calcutta; 311 cks Reichard Coulston Inc., Marseilles

NICKEL—Suitate, 179 cks., Gallagher & Ascher, Havre

OCHRE—1000 bgs., F. B. Vandegrift & Co., Calcutta; 311 cks Reichard Coulston Inc., Marseilles

OILS—Coconut, 1175 tons, SUpencer Kellogg & Sons, Manila; Cod, 100 drs Mitsui & Co, Yokohama; 70 drs, Mitsui & Co, Kobe; 2 cks., Bowring & Co., St. Johns; Codliver, 100 brls., Brewer & Co., Oslo; 50 brls. Schieffelin Co., Oslo; 1 cse., E. R. Squibb & Son San Juan; 225 brls., P. R. Dreyer Co., Hamburg; 185 brls., order Hamburg; 50 brls., Fisher Hollinshed o., Hamburg; 25 brls., Magnus Mabee & Reynard, Rotterdam; Haarlem, 25 cs., Biddle Purchasing o., Rotterdam; Olive, 335 cs., J. P Smith & Co., Marseilles; 110 cs., American Exchange Irving Trust Co., Malaga; 110 drs., J B Dewsnap, Malaga; 50 drs., Lazard Freres Malaga; 100 bgs., Nat City Bank, Malaga 105 cs., A. Goldstein & Co., Genoa; 50 cs., I. G. Correale & Bros., Genoa; 50 cs., G. Montagnino, Genoa; 300 cs., Italian Imptg. Co., Genoa; 175 cs., R. Martorelli, Genoa; 151 cs., G. Sasso & Sons, Genoa; 50 cs., Conte Verdi Olive Oil Co., Genoa; 100 cs., J F Cristani, Genoa 350 cs., S. Galle & Co., Genoa; 250 cs., Italian French Prod Co., Genoa; 150 cs., E. Bracchi, Genoa; 50 cs., J. Solari & Co., Genoa; 55 cs., F. Vicinazzo, Genoa; 105 cs., Duilio Imptg Co., Genoa; 115 cs., Garneau & de Bruyn, Genpa; 365 cs. La Montagne Inc., Southampton; Palm, 422 bgs., Niger Co., Loanda; 1173 cks., 853212 kilos Niger Co., Matadi; 700 drs.,

Niger Co., Port Harcourt; 168 cks., Africau & Eastern Trdg Co Degama; 73 drs., 20 cks., Wishnick Tumpeer Co., Grand Bassam; 78 cks., Nat City Bank Grand Bassam; 42 cks., African & Eastern Trdg Co., Hamburg; 6 brls., African & Eastern Trdg Co., Liverpool; Palm Kernel, 437 tons, J. Bibby Sons, Liverpool; Rapeseed, 200 drs., Mitsui & Co., Kobe; 100 drs., I. R. Boody, Moji; 30 drs., Kongo Shokwai, Moji; 175 drs., Mitsui & Co., Kobe; 298 tons, Vacum Oil Co., Kobe; 50 drs., William Trdg & Commercial Co., Rotterdam; Sardine, 595 tons, Procter & Gamble, Kobe; 414 tons, Brown Edward & Co., Tokio; 388 tons, Mitsui & Co., Kobe; 300 tons, Mitsui & Co., Yokohama; Seal, 100 cks., Bowring & Co., St. Johns; Sulfur, 200 brls., WR Grace & Co., Naples; 400 brls., Nat City Bank, Milazzo; 100 brls., Leghorn Trdg Co., Leghorn; Osseine, 1215 bgs., American Glue Co., Marseiles; 1025 bgs., Milligan Higgins Glue Co, Marseilles

Co, Marseilles

POTASSIUM SALTS—Alum, 300 cks., A. Klipstein & Co., Antwerp; Caustic, 45 cs, Farmers Loan & Trust Co., Hamburg; Chlorate, 450 brls., E. Suter Co., Antwerp; 1400 bgs Monmouth Chem Corp. Hamburg; Muriate, 1000 bgs., Potash Imptg Corp., Antwerp

PUMICE STONE—Lump, 3020 bgs., 3 cks., Hinrich & Pearsall Canneto Lipari; Powder, 299 bgs., Hinrich & Pearsall Canneto Lipari

QUICKSILVER-500 flasks, Haas Bros.,

Alicante
ROSIN-129 cks., M. Grunhut, Hamburg
SAL AMMONIAC-40 cks., Brown Bros &
Co., Hamburg

SHELLAC-200 bs Brown Bros & Co., Cal-

SHELLAC—200 bs Brown Bros & Co., Calcutta; Garnet, 100 bs., Brown Bros & Co., Calcutta
Co., Calcutta
SODIUM SALTS—Acetate, 35 cks., A.
Klipstein & Co., Antwerp; Hydro, 40
kegs, General Dyestuff Corp., Liverpool;
Perborate, 1 brl., Hensel Bruckmann &
Lorbacher, Hamburg; Nitrate, 6350 bs.,
W R Grace & Co., Antofagasta; 3389
bgs., E. I. DuPont De Nemours o.,
Antofagasta; 6325 bgs W R Grace & Co.,
Iquique; 1540 bgs., W R Greeff & Co.,
Oslo; Phosphate, 167 brls., A. Klipstein
& Co., Antwerp; 246 cks., Rhodia Chemical Co., Rotterdam; Silica Fluoride, 134
cks., H. Sundheimer Co., Rotterdam; 100 drs., Superfos Co., Rotterdam; Sulfate calc., 100 cks., Kutroff Pickhardt Co.
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SPONGES—3 cs. J H Rhodes & Co., Genoa
53 cs., Lasker & Bernstein, Southampton;
52 bls. Lasker & Bernstein, Havana;
112 bls., J H Rhodes & Co., Havana; 50
bls., J H Rhodes & Co., Havana; 50 bl.,
John Manville Co., Havana; 9 bls, H E
Dodds Co., Havana; 19 bl., American
Express Co., Havana
SULFUR—Blue, 6 brls Beaver Chemical
Corp Kobe

Corp Kobe

TALC-200 bgs, L A Salomon & Bro,
Genoa; 39 brls., Lunham & Reeve, Leg-

TARTAR—79 bgs., W R Grace & Co., Antonio; 84 sks., Royal Baking Powder Co., Marseilles

ULTRAMARINE BLUE-20 cks., Binney & Smith, Antwerp UMBER-25 cks., C B Chrystal, Liverpool

WAX-40 cs., Orbis Products Trdg Co., Havre; Bees, 2 bls., D. Steengrafe, Arroyo; 40 sks., Brown Bros & Co., Alexandria; 92 bls., C S Spence, Rotterdam; Vegetable, 27 bgs., Lange Bros & Co.,

WOOL GREASE-100 cks., J H Schroder

Corp., Bremen
WOODFLOUR-750 bgs., B L Soberski,
Oslo; 400 bs., State Chemical Co., Rotterdam

terdam

ZINC-Oxide. 65 brls., A. Klipstein &
Co.. Marseilles; 1 cse., A. G. Spaulding
& Bros. London; 20 brls., Philipp Bros
Antwerp; 35 cks., Smith Chemical &
Color Co., Rotterdam; 35 cks., Roessler
& Hasslacher Chemical Co., Rotterdam



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IMPORTS AT PHILADELPHIA Dec 7 to Dec 14

BONE MEAL-6000 bags, Ralli Bros., Kar-

BONES-756 bags, order, Hull

CAUSTIC POTASH-139 drums, order, Hamburg
CHALK-44 casks, order, London; Crude,
50 Otons, Brown Bros & Co., London

CHEMICAL MANURE-33 bags, Hosea

aterer. London CHEMICALS—242 drums, E H Bailey & Co., London; 25 carboys & 26 casks, H. Lundheimer, London CLAY—4366 tons, various consignees,

CUTTLE FISH BONES-140 cases, order,

Bordeaux EPSOM SALTS-200 bags, order, Bremen FLOUR-Taploca, 250 bags, Baltimore Trust Co., Batavia; 250 bags, order, Ba-

tavia

FLUORSPAR—240 tons, Standard Bank of
South Africa Ltd., Durban; 1102 tons, 17
cwt. order, Middlesboro

FULLERS EARTH—300 bags, L. A. Salomon & Bro., London

GLYCERIN—30 casks, order, Marseilles
10 drums, order, St. Nazaire

GYPSUM—600 bags, order, Bremen

LINSEED—32,906 bags, order, Buenos

Avres

LINSEED—32,906 bags, order, Buenos Ayres
MYROBALANS—2668 bags, Standard Bank of South Africa Ltd. Bombay
OCHRE—95 casks, Wishnick Tumpeer Co., Marseilles; 100 hbls., order, Marseilles
OILS—Palm, 39 casks, W & A Leaman Inc., Warri; Rapeseed, 50 drums, order, Kobe; 75 drums, W. R Grace & Co., Osaka; 80 drums, order, Osaka; 50 drums, or ORES—Chrome, 1500 tons, Harbison Walker Refractorios Co., Aghia Marinci; 200 tons, Harbison-Walker Refractorios Co., Kymassi; 2000 tons, E. J. Lavino & Co., Beira; Iron, 480 bbls., C. K. William, Malaga; Manganese; 600 bags, & 6000 tons, E. J. Lavino & Co., Sekondi
PEAT—Moss, 295 bales, Atkins & Durbrow, Bremen; Mull, 700 bales, Atkins & Durbrow Bremen; Mull, 700 bales, Atkins & Durbrow Bremen; Mull, 700 bales, Atkins & Durbrow, Bremen SODIUM SALTS—Nitrate, 513 bags, R. W.

SODIUM SALTS-Nitrate, 513 bags, R. W. Greeff & Co., Inc., Skien
TALC-900 bags, order, Bordeaux

IMPORTS AT BOSTON Dec. 10 to Dec. 17

ACID-Phosphoric, 50 demijohns, order,

Hamburg CHEMICALS—75 cks., order, Hamburg EPSOM SALTS—300 bags, order, Hamburg POTASH—Caustic, 25 drs, 10 cs, order,

Hamburg Flouride, 75 cks, 10 bbls, Stone & Downer Co, Hamburg ZINC AMMONIUM CHLORIDE—23 cks., A. Klipstein Co., Antwerp

IMPORTS AT SAN FRANCISCO Dec 3 to 10

Dec 3 to 10

BONE FLOUR-547 bags, order, Hamburg CHEMICALS-100 cases Wells Fargo Bank Hamburg; 67 cases, Braun, Knecht & Heimann, Hamburg; 222 bags, order, Hamburg; 300 bags, order, Rotterdam CHLORIDE-30 bbls., Balfour, Guthrie & Co., Antwerp; 29 drums, order, Antwerp COPRA-872 tons, Kidder, Peabody Corp., Zamboanga; 280 tons, American Linseed Co., Cebu; 476 tons, Kidder Peabody Corp., Menado; 1568 tons, order, Menado; 670 tons, El Dorado Oil Works, Zamboanga; 896 tons, El Dorado Oil Works, Legaspi; 642 tons, El Dorado Oil Works, Romblon; 319 tons, Vegetable Oil Corp., Boag; 237 tons, El Dorado Oil Works, Romblon; 310 tons, Vegetable Oil Corp., Boag; 237 tons, El Dorado Oil Works, Manila Manila

GUM-Co of New -Copal, 64 bags, Guaranty Trust Co ew York, Singapore; 70 bags, order,

ot New York, Singapore; 70 bags, order, Singapore

KAPOC—250 bales, Lilienthal, Lee & Co., Sourabaya; 150 bales, Lilienthal, Lee & Co., Samarang; 207 bales, Simmons Co., Samarang; 25 bales, Balfour, Guthrie & Co., Samarang; 80 bales, Lilienthal, Lee & Co., Padang
OIL—Cod, 100 bbls., order, Antwerp; Rapeseed, 100 drums, Mitsui & Co., Ltd., Kobe

POTASH -- 1000 bags, Milson & Meyer, Hamburg TAPIOCA-Flour, 165 bags, Hoyt, Shepston

TURPENTINE-37 cases, I. Escobosa Jr.,

Exports Chemicals, Oils and Fats

EXPORTS AT NEW YORK

ACETONE-34 drs., Nov 5, Kobe; 320 drs., Nov 20, Liverpool

CID—Citric, 1 kg., Nov 25, Vera Cruz; Cresylic, 9 drs., Nov 4, Chanarol; Hydro-cyanic, 12 cyls., Nov 20, London; Mu-riatic, 115 cartons, Nov 25, Vera Cruz Sulfuric, 33 carboys, Nov 4, Antofagasta

ALCOHOL—80 drs., Nov 5, Yokohama; 1 dr., Nov 5, Kobe; 38 drs., Nov 5, Kobe; Methyl, 48 drs., Nov 5, Yokohama; 80 drs., Nov 20, Liverpool; 34 drs., Nov 20 Liverpool

ALUMINUM POWDER-10 cs., Nov 25,

Antwerp

Ammonium—Anhydrous; 50 cyls., Nov
20, London; 19 cyls., Nov 25, Tampico;
50 cyls., Nov 20, London; 30 cyls., Nov
25, Tampico; Sulfate, 500 bgs., Nov 23,
Shanghai

BARIUM—Chlorate, 2 kgs., Nov 30, Bo-

livia
BONE ASH—69 bbls., Nov 4, Antofagasta
CALCIUM—Carbide, 10 cs., Nov 25 Vera
Cruz; 500 drs., Nov 25, Tampico
CARBIDE—500 drs., Nov 11, Carbarien;
100 drs., Nov 11, Sagua
CARBON BLACK—290 bgs., Nov 4, Anto-

CARBON BLACK—290 bgs., Nov 4, Antofagasta
COLORS—1795 kgs., 81 drs., Nov 5, Shanghai; 9 drs., Nov 25, Vera Cruz; 66 kegs, 579 drs, 25 bbls., Nov 23, Kobe; 136 cyls., Nov 23, Kobe; 136 cyls., Nov 23, Shanghai; 1441 drs., 1332 kgs., Nov 23, Shanghai; 1441 drs., 1332 kgs., Nov 23, Shanghai; 1421 kgs., 24 bbls., Nov 23, Shanghai; Earth, 31 bbls., Nov 12, Buenos Aires; 25 bbls.
Nov 26, Buenos Aires
COPPER—Sulfate, 96 bbls., Nov 25, Tampico; 100 cks., Nov 26, Rosario; 100 kgs., Nov 30, Antofagasta
CRESOLENE—5 cs., Nov 5, Kobe
CYANIDE—250 drs., Nov 25, Tampico; 1908 drs., Nov 25, Tampico
EARTH—11 bbls., Nov 5, Yokohama
ETHYLENE—Bichloride, 72 drs., Nov 20, Liverpool; 5 drs., Nov 25, Havre; Glycol, 5 drs., Nov 11, Liverpool
EXTRACT—Dyewood, 10 bbls., Nov 25, Bordeaux; Sumac, 8 bbls., Nov 25, Vera Cruz; Tanners, 6 drs., Nov 16, Hamburg
FORMALDEHYDE—150 bbls., Nov 20, Liverpool; 3 bbls., Nov 25, Vera Cruz
GLUE—10 bgs., Nov 5, Shanghai; 8 bgs., Nov 25, Vera Cruz
GLYCERINE—1 dr., Nov 30, Mollendo
GRAPHITE—60 cs., Nov 11, Liverpool; 6

bbls., Nov 25, Havre; 6 bbls., Nov 16, Hamburg INDIGO PASTE-1733 cs., Nov 23, Shang-

LIME-Acetate, 7350 bgs., Nov 20, Liver-

pool
LINSEED OILAKE—8307 bgs., Nov 15,
Rotterdam; 614 bgs., Nov 20, Liverpool;
2222bgs., Nov 20, Liverpol; 1286 bgs., Nov
11, Rotterdam; 2535 bgs., Nov 25, Antwerp
2003 bgs., Nov 25, Antwerp
LITHOPONE—23 bbls. Nov 4, Chanarol
MAGNESIUM—Oxide, 4 cs., Nov 25, Vera
Cruz; 11 bs., Nov 16, Hamburg

MAGNESIA TAR-4 bbls., Nov 4, Anto-

fagasta
MALT-500 sks., Nov 15 Copenhagen
NICKEL OXIDE-112 bbls., Nov 15, Rot-

terdam
OIL—Cocoanut, 10 bbls., Nov 30, Bolivia
Codliver, 25 bbls., Nov 15, Rotterdam;
Neatsfoot, 5 bbls., Nov 25, Antwerp;
POTASSIUM SALTS—Chlorate, 10 kgs.,
Nov 30, Bolivia; Iodide, 8 cs., Nov 23,
Shanghai; Permanganate, 5 drs., Nov 30,
Bolivia

PUMICE STONE- 20 bbls., Nov 18, Lon-

ROSIN—45 bbls., Nov 4, Port Natal SODIUM SALTS—Ash, 350 bbls., Nov 11, Havana; 4 drs., 50 bbls., Nov 23, Manila; Bicarbonate, 326 kgs., Nov 23, Manila; 35 kgs., Nov 25, Progreso; 48 kgs., Nov 23, Bangkok; 21 cs., Nov 23, Vera Cruz; 26 cks., Nov 23, Kobe; Bisulfite, 10 bbls., Nov 11, Carbarien; Caustite, 36 drs., Nov 25, Progreso; 12 cs., 180 drs. Nov 25 Vera Cruz; 80 drs., Nov 25, Tampico; 100 drs., Nov 11, Havana; 100 drs., Nov 23, Manila; 4 drs., Nov 30, Mollendo; Chiorate, 10 drs., Nov 20, London; Hyposulfate, 200 kgs., Nov 23, Manila; Hyposulfite, 147 bbls. Nov 25, Tampico; Peroxide, 3 cs., Nov 30, Bolivia SUGAR OF MILK—70 bbls., Nov 23, Dairen; 25 bbls., Nov 23, Shanghai; 10 cs., Nov 19, Bombay
TALC—174 cs., Nov 5, Manila
TRIMENE BASE—2 drs., Nov 25, Ant-

TALC-174 cs., Nov 5, Manila TRIMENE BASE-2 drs., Nov 25, Ant-

werp
ULTRAMARINE BLUE—15 bbls, Nov 20,
London; 20 kgs., Nov 25, Vera Cruz
ZINC—Oxide, 400 kgs., Nov 15, Rotterdam; 2 kgs., Nov 25, Progreso; 240 bbls.,
Nov 18, London; 100 bbls., Nov 23 Kobe
White 20 cks., Nov 25, Progreso

IMPORTS AT BALTIMORE
Dec 8 to 15
ACID—Cresylic, 10 drums, Baldwin Universal Co., Inc., Beemsterdijk, Rotter-

dam ASPHALTUM—Solid, 112 drums, 22 tons, Thomas Asphalt Products Co., East Side Liverpool BLOOD—Dried, 1412 bags, 179,072 lbs., H. J. Baker & Bro., West Imboden, Buenos

NE MEAL-2625 bags, 264,602 lbs., H. Baker & Bro., West Imboden, Buenos BONE

HEMICALS—282 cases, 124,507 lbs., Simon M. Goldsmith, City of Alten, Rotter-

CHROME ORE—2250 tons, Rhodesian Van-adium Corp., West Cawthon, Beira CLAY—50 casks, E. H. Shallus Co., Beem-

FERRO MANGANESE—630 tons, Crocker Bros., New York, Wheatmore, Liver-

GUANO-Whale, 5495 bags, to order, West Cawthon, Capetown IRON ORE-5,000 tons, Bethlehem Steel Corp., City of Dalhart, Whyalla; 11,000 tons, Bethlehem Steel Corp, Firmore,

Daiquiri

MANGANESE ORE—8,700 tons, Cottman
Co., Cincha, Rio de Janeiro

NITROGENOUS MATERIAL—1,000 bags,
Felix Chisholm, Wheatmore, Liverpool

NITROPHOSKA—227 bags Synthetic Products Corp., Beemsterdijk
OIL—Palm, 50 bbls., 2470 lbs., William H.
Masson, East Side, Liverpool

OLEO STEARINE—122 tierces, 58,114 lbs.,
Swift & Co., West Imboden, Buenos
Aires

POTASH—Kainit, 12.4%. 607,860 lbs, N. V. Potash Export My., Hillegam, Antwerp; 20%, 278,740 lbs., N. V. Potash Export My., Hillegam, Antwerp; Muriate, 50%, 2,325,180 lbs., N. V. Potash Export My., Hillegam, Antwerp; 50%, 1,000 bags, 199,580 lbs., N. V. Potash Export My., Hillegam, Antwerp; 50%, 5,150 bags, 1,027,833 lbs., N. V. Potash Export My., Hillegam, Antwerp; 50%, 2,500 bags, 498,949 lbs., Rukert Bros., Hillegam, Antwerp; 55%, 1500 bags, 299,369 lbs., N. V. Potash Export My., Hillegam, Antwerp; Sulfate, 1,000 bags, 199,580 lbs., N. V. Potash Export My., Hillegam, Antwerp; 1,000 bags, 199,580 lbs., Ruckert Bros., Hillegam, Antwerp; Louden, Antwerp, Ruckert Bros., Hillegam, Antwerp; 1,000 bags, 199,580 lbs., Ruckert Bros., Hillegam, Antwerp

QUEBRACHO-Wood, 2,505 bags, 591,435 lbs., Tannin Corporation, West Imboden, Buenos Aires

lbs., Tannin Corporation, West Imboden, Buenos Aires SEED—Beet, 1 bag, Wiseman & Downs Co Inc., Wheatmore, Liverpool STARCH—Potato, 250 bags, William H. Masson, Beemsterdijk, Rotterdam

IMPORTS AT NEW ORLEANS Dec 9 to 16 1927

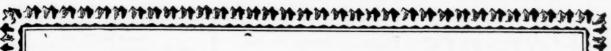
BONEMEAL—2021 sacks, order, Hamburg CREOSOTE—8121 tons, American Creosot-ing Co., Rotterdam

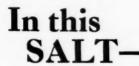
FERRO-MANGANESE-150 tons, order,

Liverpool GUM-Chicle, 189 bales, order, Port Barrios; 588 bales, Wm. Wrigley Co., Belize MOLASSES—1523278 gals. Dunbar Molasses Co., Havana; 720,000 gals. Kentucky Alcohol Co., Nuevitas Alcohol Co., Nuevitas

NAPHTHALENE—1929 bags, order, Ant-

werp POTASH-Sulfate, 1500 sacks, order Havre NITRATE-500 sacks, order, Havre





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Application date appears with each patent.

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SOAP AND GLYCERINE MANUFACTURE

A MODERN TREATISE ON THE PRODUCTION OF SOAPS OF ALL KINDS, AND ON THE RECOVERY AND DISTILLATION OF GLYCERINE.

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449,286.—Causing Reactions Between Gases and Liquids for producing sulphuric acid. Dr. P. Fischler, Trzebinia, Poland. Mar. 10, 1926.
449,287.—Precipitating Traces of Nitrous Gases in the form of nitric acid. Dr. L. Bergfeld, Heidelberg. Aug. 22, 1926.
449,112.—Formyl Compounds of Aromatic Series. I. G. Farbenindustrie A. G., Frankfurt. Mar. 12, 1925.
449,051.—Continuous Production of Urea from Ammonia and Carbon Dioxide. Dr. M. Casale, L. Casale and R. Casale, Rapallo, Italy. May 12, 1925.
449,113.—Sulphonic Acid Derivatives of Aralylated Aromatic or Hydroaromatic Hydrocarbons. I. G. Farbenindustrie A. G. July 23, 1924.
449,114.—Chain Alkylated Arysulphonic Acids. I. G. Farbenindustrie A. G. Apr. 2, 1925.

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49,405.—Aromatic Amines. I. G. Farben-industrie A. G. May 1, 1923.
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49,297.—Obtaining Purified Montan Wax by means of activated charcoal. A. Smel-kus, Berlin-Gruenau. Oct. 7, 1925. 449,454.—Stable, Concentrated Glycerin Preparations. A. Kuenzel, Kralsruhe. Nov.

9, 1925. 449,026.—Disinfectant from humic acid. br. O. Lowe Beer, Frankfurt. Mar. 30,

449,126.—Mothproofing Medium. I. G. Farbenindustrie A. G. Oct. 6, 1922.

Despite official optimism, expressed in the early summer for quick development of production at the French government's synthetic nitrogen plant at Toulouse, the mediocre results so far obtained gave rise to a heated discussion in the French Senate on November 23, reports Assistant Commercial Attache Daniel Reagan, Paris.

In unofficial circles, it is maintained that the production costs for the synthetic nitrogen at Toulouse are by far the highest of any of the plants in operation up to the present time, not only in France, but in the other principal producing countries. The protracted period which has been required to begin even a small production at this plant, coupled with these high costs has caused widespread criticism, despite the fact that it is recognized that this installation is designed primarily as a war reserve. The farming element has now joined the political critics in demanding a more efficient administration and operation of this plant, as they still see no signs of enjoying cheaper nitrogenous fertilizers as this factory is now operated.

GERMAN NITROGEN YIELD OVER HALF MILLION TONS

(Special to CHEMICAL MARKETS) Washington, D. C., Dec. 22-German fixed nitrogen production amounted to 580,000 metric tons for the year ended June 30, 1927, reports Trade Commissioner William T. Daugherty, Berlin. This figure. however, may cover a 13-month period, from May 31, 1926 to June 30, 1927, as the syndicate fixed June 30 as the close of the fertilizer year instead of May 31.

Products were as follows: Synthetic ammonium sulfate, 355,000 metric tons; by-product ammonium sulfate, 60,000 tons; calcium cyanamide, 70,000 tons; calcium nitrate, 60,000; sodium nitrate (synthetic Chilean saltpeter), 15,000; and miscellaneous synthetic nitrates 20,000 tons

Ammonium sulfate, as the above figures show, was the major product.

Production of 355,000 tons of fixed nitrogen contained in ammonium sulfate is equivalent to approximately 1,775,000 tons of the fertilizer salt. In the period, July, 1926, to June, 1927, inclusive, exports of ammonium sulfate amounted to 451,-000 tons, while imports totaled less than 1,000 tons. Germany exported approximately 120,000 tons of ammonium sulfate to Japan, but the trade declined progressively in the first months of 1927. Other important customers for German ammonium sulfate are France, Belgium, the Netherlands, and Spain. The two former are receiving deliveries on reparations account.

The ammonium sulfate exports, representing approximately 90,000 tons of fixed nitrogen, include an unknown amount of coke-plant byproduct sulfate. Deducting the exports from the total German synthetic and by-product production of 415,000 tons, it is observed that Germany consumed roughly 325,000 tons of fixed nitrogen in ammonium sulfate.

New installations for handling Alsatian potash have been made at Antwerp, Belgium, according to Assistant Trade Commissioner George W. Berkaleu, Brussels. The project was constructed according to plans of the Alsace Potash Society and the resulting construction can accomodate a stock of 150,000 tons of potash salts.

Operating at maximum, speed, 6,-000 tons may be loaded and unloaded in eight hours.

Arrivals of shellac in Calcutta have slightly increased, and the supply of American T. N. is sufficient to meet the demand, according to Warren G. Patterson, Calcutta.

LIME MANUFACTURE

(Special to CHEMICAL MARKETS)

Washington, D. C., Dec. 19-Mining methods, introduced during the last few years for mining limestone rock, rotary kilns for the burning operation, and other recent improvements in the manufacture of lime are fully described in a circular entitled "The Manufacture of Lime," recently issued by the Bureau of Standards.

This paper is intended to replace Technologic Paper No. 16 published in 1913, on the properties and uses of Since this report was issued many changes and improvements, such as the two cited above, have been introduced in the industry. Furthermore, in 1913 very little hydrated lime was manufactured, whereas a large amount of lime is marketed in that form today.

In order to gather the information for this new circular, nine typical lime plants were visited in the spring of 1925, each of which employed methods not in use in 1913. The data secured, and now made available through Circular No. 337, include the production of chemical lime, the latest type of gas-fired kilns, the operation of continuous draw kilns and the procurement of limestone.

Copies of this publication 337) may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 45 cents apiece.

The principle obstacle to the sale of American sulfate of alumina in Uruguay is higher prices charged by American manufacturers, according to Commercial Attache Clarence C. Brooks. Although it is true that a superior quality grading, 17 to 18 per cent, is shipped from the United States, the Uruguayan government which is the largest single consumer, only requires a grading of 15 per cent. Consequently, American manufacturers cannot compete on an equal basis with those of Europe, who offer the lower grade at a lower price.

There is a large paper factory in that country, however, which might be sold upon the better grades. American producers may secure the name of this company upon application to the Chemical Division.

According to Bachi's compilation of index numbers, using the average prices of 1920 as 100, chemical prices in Italy have materially decreased, reports Assistant Commercial Attache A. A. Osborne, Rome. In October, 1926, the index number was 74.2 as compared with 61.7 in the corresponding month of 1927.

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SYNTHETIC FERTILIZER CONSUMPTION IN POLAND

Complete figures show that Poland's consumption of artificial fertilizers during 1926, although slightly less than in 1925, was still considerably higher than the post-war average, according to Assistant Trade Commissioner Gilbert Redfern, Warsaw. The total fertilizer consumption for 1926 is given as 681,100 metric tons, which compares with 712,700 tons in 1925, 397,400 in 1924, 508,100 in 1923 and 403,700 tons in 1922.

The principal items included in the 1926 consumption of 681,100 tons were; superphosphates, 155,500 metric tons; basic phosphate slag, 138,700 tons; bone meal 8,500 tons; cyanide, 110,600 tons; ammonium sulfate, 18,800 tons; nitrate of soda, 23,900 tons; and potash salts, 220,700 tons

Domestic production of artificial fertilizers in 1926—from a total of 28 manufacturing establishments—amounted to 612,533 tons; 11 factories producing 160,787 tons of superphosphates, and one factory 117,932 tons of cyanamide. Definite figures are not yet available on production and consumption for 1927, but it is believed that these will show an increase over 1926.

The German Dye Trust is probably the main factor in rare earth chemicals in Germany, centering in the electrolytic processes of Grieshiem-Elektron, Griesheim gets cerium from monazite sand and markets it for use in friction lighters. Parallel with this production, Griesheim is identified with beryllium, tungsten, chromium, titanium, magnesium, calcium, sodium and barium. Deutsche Gasgluehlicht Auer Gesellschaft, Berlin, production of thorium salts surrounds its manufacture of gas mantles. Incidentally, however, it has a section producing titanium white. Beyond this its interest in so-called rate earth chemicals ceases.

More than 2,000 buyers and exhibitors from the United States will attend the Leipzig Spring Fair, Leipzig, Germany, according to announcement made by the Fair News Service in this country. It is expected that fully 10,000 exhibits drawn from more than 20 countries will be on display with an attendance at the Fair of over a quarter of a million people.

The Fair next Spring will be held from March 4 to 10 and information regarding it may be obtained from the Leipzig Trade Fair, Inc., 630 Fifth Ave., New York.

NEW FRENCH MOTOR FUEL

France's gasoline problem is going to be solved before long, according to Frenuh scientists. There is confidence in the development of synthetic production of alcohol and gasoline and in the power of benzol to improve the quality of motor fuel.

A mixture of one-third each imported gasoline, benzol and alcohol is said by Pierre Dumanois, technical head of the government's bureau seeking a liquid "national fuel," to have produced excellent results. His report says this mixture gives more power, quicker acceleration and is better for a motor than straight gasoline.

Production of cheap alcohol is greatly hampered by high taxation and government control of the supply, including price-fixing, but scientists say there is no doubt the country can produce wast quantities of cheap alcohol whenever the government frees the industry from restraint.

Benzol already is being produced in increasing quantities as a byproduct.

This mixture is not regarded as a complete solution, but many apparently successful experiments are said to promise that eventually there will be found one or more synthetic processes that may entirely free France from "foreign tribute," as is called the necessity for importing gasoline.

I. C. I. ESTABLISHES RESEARCH COUNCIL

Imperial Chemical Industries, Ltd. has announced the establishment of a Research Council, whose purpose is to provide a co-ordinate body for determining lines of general industrial research, reports Trade Commissioner Homer S. Fox, London. main function of the Research Council will be advisory, and it will act as a clearing house for new chemical ideas and policies. The Council will also provide close connections between the chemical industry and the universities, and promote both pure or academic research and also long distance practical industrial research. The president of the council is understood to be Sir Alfred Mond, Chairman of Imperial Chemical Industries,

Glidden Co., Cleveland, during year ended Oct. 31, made a reduction of approximately \$1,425,000 in outstanding debt, according to Adrian D. Joyce, president. It is expected that by the end of fiscal year of 1928 all miscellaneous bond issues of subsidiary companies will be retired, leaving indebtedness of only \$2,700,000, represented by bond issue of parent company.

JAPANESE IMPORTS OF SULFATE AMMONIA LOWER

(Special to CHEMICAL MARKETS) Tokyo, Japan, Nov. 25-Sulfate of ammonia imported into Japan from the beginning of January 1927 to the end of October totaled 213,000 tons. It is estimated that 260,000 tons will have been brought here before the end of this year. This is a decline of 27.000 tons from last year's imports amounting to 287,000 tons. production increased 20,000 tons over last year, due to extension of plant equipment by the Japan Nitrogen Co. and the Electro- Chemical Company. Sulfate of ammonium as byproduct of gas coke also increased about 7,000 tons this year. The balance brought to 1926 from the preceding year was 30,000 tons but that of this year 65,000 tons and the total supply of this year is 35,000 tons more than last year. The total of this year's imports, domestic production and the balance is 482,000 tons. Continued surplus of supply has featured the ammonium sulfate business so far this year. The consumption during the first half of this year was unfavorable, due to the virtual suspension of demand for one month following the spring panic.

Swedish production of pine tar in 1925 amounted to 7,376 metric tons, valued at 1,003,000 crowns, which compares with 6,906 metric tons, valued at 1,037,000 crowns, in 1924. Total exports in 1926 were 6,385,885 kilos, valued at 1,419,479 crowns, which compares with 6,961,078 kios, valued at 1,564,283 crowns, in 1925. Exports for the first nine months of 1927 amounted to 4,034,875 kilos which compares with 4,792,077 kilos for the corresponding period of 1926.

Stocks of rayon held in bonded warehouses on October 30, 1927, totaled 660,444 pounds of waste and yarns made from waste, valued at \$317,607, and 1,673,899 pounds of thread valued at \$1,082,177 according to a statistical report by the Textile Division, Department of Commerce.

Stocks on September 30 this year were 827,842 pounds of waste and yarns made from waste value at \$357,121, and 1,875,096 pounds of thread valued at \$1,235,565; on October 31, 1926, they were 226,912 pounds of waste valued at \$240,527 and 1,878,507 pounds of thread valued at \$1,694,879.

The Buenos Aires municipal regulation prohibiting the sale or use of paint manufactured with a lead base has been declared unconstitutional by the Court of Criminal Appeal, reports Assistant Trade Commissioner Mason F. Ford, Buenos Aires.

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KUHLMANN NOW MAKES VAT DYES IN FRANCE

An important step in the French dyestuffs trade, particularly in its relation to Germany, has been taken through the manufacture of vat dyes, according to Assistant Commercial Attache D. J. Reagan, Paris.

These dyes are being manufactured at the Kuhlmann company's Villers- Saint-Paul plant as part of its development program, which has included the introduction of nine intermediate products, most important among which are anthraquinone, the basis for dizarine and vat dyes, and beta-aminoanthraquinone, the basis for solanthrene dyes.

During the last year, ninety-five new types of dyes have been perfected by this company at this plant and at its plant at Ooissel about forty different types were produced. These dyestuffs belong to various groups, but of particular importance are the bromate indigo series and the solanthrene dyes for which the French consumers have been dependent upon foreign sources, particularly Germany.

The dyestuffs output by this company in 1926 totaled 9,900 metric tons, as compared with 9,000 metric tons in 1925. This represent 65 per cent of the total output in France for 1926, exclusive of the 1,200 tons produced by the Swissowned plant at St. Fons and the relatively small amounts produced by the individual textile manufacturers for their own needs.

Export returns of sienna from Leghorn, Italy, to the United States for quarter ending September 30, 1927 indicate a value of \$18,805, reports Consul Jesse B. Jackson, Leghorn. This was an increase in value of \$3,000 over the preceding quarter and of \$1,000 over the corresponding period of 1926.

The price range during the third quarter of 1927 was from \$68,30 to \$120.21 per metric ton as against \$44.19 to \$121.54 per metric ton for the second quarter.

Goldfield Consolidated Mines Co. has taken an option on quick-silver claims in Gold Circle district, Nevada, and will begin mining operations. Option is said to have carried a purchase price of \$35,000.

The "Glasgow," a Japanese steamer, in leaving Fowey for Philadelphia with a cargo of china clay, went on rocks at the entrance to the harbor when the towline parted.

CZECHOSLOVAK COAL TARS

Czechoslovak production of coal tar amounts to over 90,000 metric tons annually, between one-half and two-thirds of which is consumed locally. Imports in 1926 amounted to a little over 7,000 metric tons, almost entirely bituminous. Ten plants are engaged in the manufacture of lignite coal tar, while numerous gas plants and some 12 coke ovens produce bituminous coal tar.

One firm at Moravska Ostrava takes the total output of the principal lignite coal tar producers and puts out a great variety of by-products. This company is owned jointly by the principal coal tar producers and is responsible for about 80 per cent of the country's total output, or about 75,000 metric tons annually.

Imported bituminous coal tar and the production of local gas plants are for the most part handled by "Teerag", a Prague

Oil deposits at Geran, Giandzhinsk County, Soviet Russia, which are at present idle, will be re-established according to a Moscow trade paper. The deposits of oil are naphtha bearing and a by-products obtained may be for manufacturing high grade back lacquer suitable for the insulation of electric cables. It is planned to begin operations with eight test derricks, and a large chemical plant will be erected at an estimated cost of \$1,000,000 for refining the oil and for production of the by-products.

As a result of improved conditions in the alcohol industry the American Solvents and Chemical Corp. is showing a decided improvement in earnings, says the "Chicago Journal of Commerce". Both gross and net earnings of its principal producing subsidiary in the current quarter are running larger than for any similar period in its history. Volume of business should be further increased as cold weather sets in and there is a greater demand for anti-freeze solutions. The company also has increased booking for 1928.

E. I. du Pont de Nemours & Co., Wilmington, Paint and Varnish Division, has awarded a building contract for a two-story addition to its Flint, Mich. plant, estimated to cost in excess of \$40,000, with equipment.

Western Industries Co., San Francisco, will build a new five-story plant in the vicinty of Stege, Cal., estimated to cost in excess of \$200,000, with machinery.

FERTILIZER INDUSTRY DORMANT IN BRAZIL

According to a recent communication from Trade Commissioner Gregory H. Eickhoff, Rio de Janeiro, it is stated that there is no new fertilizer plant either in project or in operation in Brazil. The old and only recorded plant is Fabrica de Adubos Curto, Oswaldo Cruz, Federal District, and it has no intention, at present, of increasing its output which amounts to 1,500 tons per annum. The Sao Paulo district is the heaviest fertilizer region and it is extremely doubtful whether any concern would locate in Rio de Janeiro to subject themselves to the very heavy freight rates necessary to deliver their product to the consuming center. Copies of the regulations for sale of fertilizers and chemical preparations as passed by the Brazilian Congress on September 13, of this year are available to accredited firms and individuals upon application to the Chemical Division.

Texas Gulf Sulphur Co. has been making a thorough investigation of the sulfur possibilities of the Boling field in connection with which a lease agreement was recently entered into with the Gulf Oil Corp. Drilling of more than 30 wells on the dome shows that the sulfur deposits cover an area of at least 1,200 acres. It is possible that these may be eventually found to cover some 1,800 acres. Core test of the wells so far conducted reveal a sulfur content formation varying from 10% to 65%, while the general average is in the neighborhood of 30%. The sulfur formation is 200 ft. thick in some places and geologists expect a possible mini-mum recovery of 30,000,000 tons and a maximum of around 80,000,-000 tons. Sulfur is being found at a sub-surface depth ranging from 500 ft. to 1,300 ft.

Brame's Chemical Co., Asheboro, N. C., recently organized to manufacture chemical and drug specialties, has plans for the immediate erection of a new plant in that city. It will be one-story, 50 x 125 feet, estimated to cost close to \$21,000. It is understood that Arthur Ross and W. J. Armfield, Jr., Ashboro, will head the new company.

Neville Chemical Co., Pittsburgh, has authorized the construction of a new one-story plant in the Neville Island district, to cost in excess of \$45,000 with equipment.



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FROZEN DEVELOPMENTS

(Continued from Page 886)

cess; whereas the fellow who follows is probably forced to follow to keep in the running. I do not believe that a general policy applicable to all cases, with equal wisdom, can be formulated."

"The proposed editorial as submitted by you has just been received here in Washington," writes Dr. William J. Hale "and your question is in itself perfectly inocuous; it envisages no constructive train of thought. The field of endeavor here comprehended has little if any bearing upon production and sales. It is primarily a problem of research and finance in the light of future development. Too much money already has been wasted on the part of industrial leaders, and in good faith, by following the suggestions and evanescent discoveries of pseudo research men. It were better far to permit every discovery to season for a year or more before announcing the same to the scientific world."

"When real chemical discoveries have been made, it requires the combined efforts of chemists and engineers for a not inconsiderable period of time in order to install the necessary operations upon a practical and workable scale. None but morons would fail to incorporate such in their operations. Personally I think the question is entirely inapt and more or less asinine."

"A flat "Yes" or "No" will do for an answer. Each problem is a case in itself. The progressive company should have for its policy a full investigation of each problem or process and attending market condition," is the opinion of Robert B. Lebo of the Chemical Products Division of Standard Oil Company of N. J.

Called Keynote of Corporate Management

From C. F. Hutchings, General Manager of North American Chemical Company, comes the expression of opinion that "Frozen Development" calls into discussion the keystone of corporate management. It is obvious that every item of development must be considered on its own particular merits, but to avoid lengthy discussion of a very large subject, my own opinion is to the effect that, with medium sized corporations where new developments ordinarily run into expenditures of perhaps \$100,000 or less, an enterprising manager has a natural antipathy to frozen development and a real worth while new undertaking will not remain frozen very long in his factory."

"The following remarks may illustrate my meaning. Technical view point: Any manufacturing chemist knows that laboratory results and dicta must pass a commercial scale test to determine their true value and the time necessary for such trial will likely run into as much as two years. The very fact of these long time tests and the comparatively large scale of equipment necessary to prove whether or not true value exists, is the reason for the well known conservatism of chemical executives. It is necessary for the research department to show very definite points of merit

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even to induce sufficient expenditure of money for a tria!. However, when a practical try-out proves real merit, I believe there are few seasoned executives who would hesitate to make immediate use of the improved process. Too much time and money has already been spent to make pigeon-holing or delay a rational act."

"Commercial aspect: If the improvement increases profits it cannot be adopted too quickly. The executive who awaits competition to spur him on to the improvement of his processes is sadly lacking. With the requirement of perhaps two years to try out a new improvement if the situation as it relates to competition can be discounted two years in advance, why forego the extra profits during that period by pigeon-holing the improvement. In this connection we should not forget that operating an up-to-the-minute plant induces a sublime peace of mind that pervades the entire personnel of the company, from the highest to the lowest,a hidden asset of no mean value. To pigeon-hole an improvement means putting a stop to progress in that particular department, whereas if promptly put to work still further improvements are sure to be discovered; thus manufacturing methods are kept moving forward in a constant progression of betterment."

Leadership All-important

"I consider it important to keep in the lead," writes Paul I. Merrill, R. T. Vanderbilt Company, "whether the follower is the sheriff or a competitor in business. While it may always be desirable to have some improvements in reserve to be used when necessary, it is better to make improvements and even to scrap equipment before being actually forced to do so by manufacturing conditions or competitive sales."

K. B. Lacy, Engineer of Van Schaack Bros. Chemical Works says "Will the profits from the new process, after deducting the usual items such as maintenance, interest on investment and amount written off per period, show an increase over the same figure for the old method? If the process does show increased profits, change is undoubtedly sound, provided the cost of scrapping the old process (if this is done) is considered. If it shows no marked increase, the change may still be of advantage if economic conditions have been correctly balanced and an increase of basic raw material costs is found imminent."

"It seems wiser to meet competition with a new and more efficient process as long as the above balanced conditions hold good."

From an alcohol producers standpoint comes this opinion by Frank C. Lowry of Lowry and Company. "The review is complete and accurate. Waiting until changes in a plant are forced by competition means that the company is always a follower. Such a program is generally the result of a "dividends first" policy."

Of the opinion that "Frozen Development" simmers down

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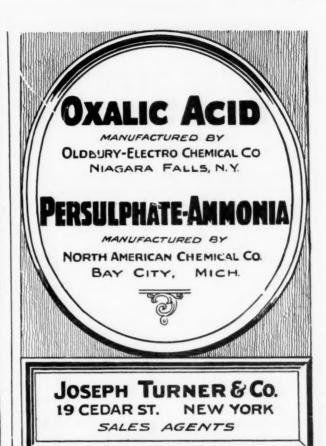
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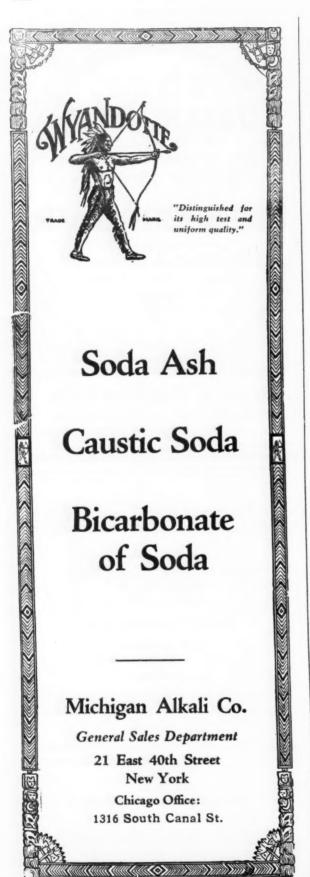
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to a question of whether the organization is willing to be a leader or content to be a follower in their particular line," H. E. Woodworth of California Spray Chemical Company continues, "In our own sphere we have no hesitancy in scrapping equipment or discontinuing lines in which we have lost confidence or which we feel are superseded by more modern, more efficient, or more economical materials, whether the new development originates from our competition or from our own research laboratory. In other words, our research organization governs production and sales"

Thomas F. Meehan of James Good, Inc., believes that "It is both unfashionable and unprofitable to be contentedly on the deal level. He who does not keep abreast of the procession or ahead of it, must of necessity drop out or be a laggard. Frozen developments, like frozen assets, are very uncertain "reeds" upon which to depend in emergencies. Success will only woo those who are ready and willing to step out in front of the procession."

Attacking the problem from the angle of both the young chemist and the executive, R. W. Cornelison of Peerless Color Company writes that "Actual experience has convinced me there are two sides to the question. I have been the young, interested and intensely enthusiastic chemist, held up by the bit and bridle and prevented from doing things which I knew, as I supposed, ought to have been done; and many of them ought, too. I have been the manager holding the reins and conscious of the unsatisfied enthusiasm and spirit of able research chemists."

"My sympathy is with the enthusiastic chemist; yet I must admit that frequently conditions, which cannot be disclosed, form valid reasons for seeming inertia. Individual cases must be treated separately and no hard and fast "plank in the company's platform" can be adopted. Your term, "Frozen Development", may in some cases be unjustly applied. I shall not attempt to estimate the relative number cases."

CAUSTIC POISON ACT REGULATIONS (Continued from Page 888)

the samples is completed, if no violation of the Act is detected, the chief of the station shall send a notice of release to the importer and a copy of this notice to the collector of customs for his information.

(g) Violation:

(i) If a violation of the Federal Caustic Poison Act is disclosed, the chief of the station shall send to the importer due notice of the nature of the violation and of the time and place where evidence may be presented, showing that the containers should not be refused admission. At the same time similar notice regarding detention of the containers shall be sent to the collector, requesting him to refuse delivery thereof or to require their return to customs custody if by any chance the

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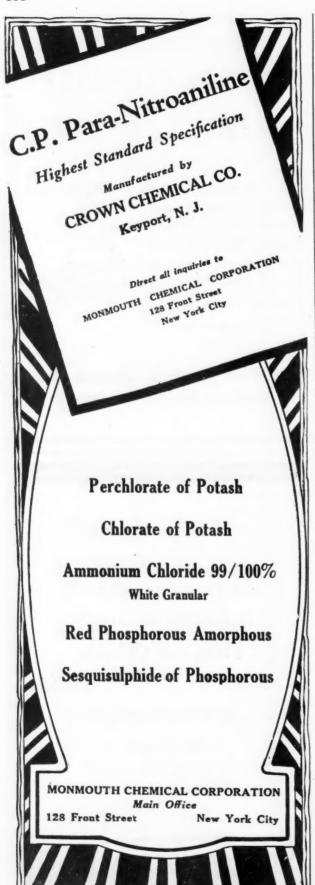
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containers were released without the bond referred to in paragraph (c) of this regulation being given. The time allowed the importer for representations regarding the shipment may be extended at his request for a reasonable period to permit him to secure such evidence.

(2) If the importer does not reply to the notice of hearing in person or by letter within the time allowed on the notice, a second notice, marked "second and last notice", shall be sent at once by the chief of the station, advising him that failure to reply will cause definite recommendation to the collector that containers be refused admission and that the containers be exported within three months under customs supervision.

Rejected Containers:

(3) In all cases where the containers are to be refused admission, the chief of the station within one day after hearing, or if the importer does not appear or reply within three days after second notice, shall notify the

collector in duplicate accordingly.

(4) Not later than one day after receipt of this notice the collector shall sign and transmit to the importer one of the copies, which shall serve as notification to the importer that the containers must be exported under customs supervision within three months from such date, as provided by law; the other notice shall be retained as office record and later returned as a report to the chief of the station. In all cases the importer shall return his notice to the collector, properly certified as to the information required, as the form provides.

Containers to be Relabeled:

(5) If containers are to be released after relabeling, a notice shall be sent by the chief of station direct to the importer, a carbon copy being sent to the collector. This notice must state specifically the conditions to be performed, so as to bring the performance thereof under the provisions of the customs bonds on consumption and warehouse entries, these bonds including provisions requiring compliance with all of the requirements of the Federal Caustic Poison Act and all regulations and instructions issued thereunder. The notice will also state the officer to be notified by the importer when the containers are ready for inspection.

(6) The importer must return the notice to the collector or chief of station, as designated, with the certificate therein filled out, stating that he has complied with the prescribed conditions and that the containers

are ready for inspection at the place named.

(7) This notice will be delivered to the inspection officer, who, after inspection, will indorse the result thereof on the back of the notice and return the same to the collector or to the chief of station, as the case may be.

When the conditions to be complied with are (8) under the supervision of the chief of station, and these conditions have been fully met, he shall release the con-

(Continued on Page 938)

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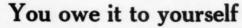
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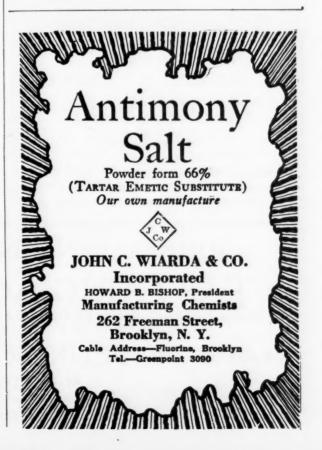
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whence you came, where
you are going, and to
whom you must account"





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OUTSTANDING EVENTS OF 1927

IN THE CHEMICAL INDUSTRY

(Continued from Page 883)

Norwegian Hydro-Electric Corp. issues \$20,000,000 gold bonds in this country.

DECEMBER

Commissioner Doran announces new denatured alcohol formulas for use in manufacture of lacquers and solvents.

American Association of Textile Chemists and Colorists holds seventh annual meeting in New York.

CHEMICAL MARKETS announces new editorial program.

I. G. and Kuhlman interests sign Franco-German dyestuffs agreement. Imperial Chemical Industries, representing British interests, expected to follow suit

Tacoma Electrochemical Co., subsidiary to Pennsylvania Salt Co., incorporated to manufacture liquid chlorine.

Miner-Edgar Co. goes into hands of receivers.

Insecticide and Disinfectant Manufacturers' Association holds annual convention in New York.

Synthetic Organic Chemical Manufacturers' Association holds annual meeting in New York.

Chemical Advisory Committee to the Department of Commerce holds annual conference in Washington.

Prof. Moses Gomberg, University of Michigan, receives Chandler Medal.

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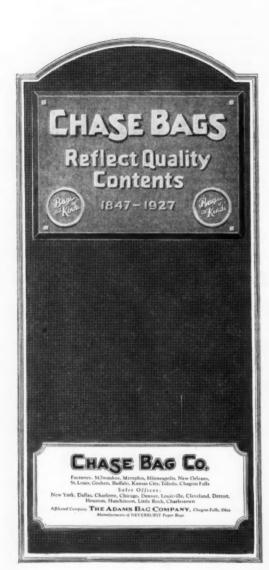
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CAUSTIC POISON ACT REGULATIONS

(Continued from Page 934)

tainers to the importer, sending a copy of the notice of release to the collector for his information.

If containers have not been properly relabeled within the period allowed, the chief of station shall immediately give notice in duplicate to the collector of the results of inspection. The collector shall sign and immediately transmit one copy of the notice to the importer and proceed in the usual manner.

(9) If the containers are detained, subject to relabeling to be performed under the collector's supervision, the collector, as soon as relabeling is accomplished, will notify the importer that the containers are released.

(10) If containers have not been properly relabeled within the period allowed, their sale after labeling as required by the Act or other disposition must be effected by the collector.

((1) When final action has been taken on containers which have been refused admission, sold or otherwise disposed of as provided for by the Act or which have been relabeled under the collector's supervision, the collector shall send to the chief of station a notice of such final action, giving the date and disposition.

(12) When relabeling is allowed the importer must furnish satisfactory evidence as to the identity of the containers before release is given. The relabeling must be done at a stated place and apart from other containers of a similar nature.

(13) When containers are shipped to another port for relabeling or exportation, they must be shipped under customs' carrier's manifest, in the same manner as shipments in bond.

(14) Collectors of customs will perform the inspection service whenever containers are to be exported, sold or otherwise disposed of, and in other cases when there is no officer of the station available.

(15) Collectors of customs and representatives of the station will confer and arrange the apportionment of the inspection service according to local conditions. Officers of the station will, whenever feasible, perform the inspection service in connection with relabeling.

(h) Penalties:

(1) In case of failure to comply with the instructions or recommendations of the chief of station as to conditions under which containers may be disposed of, the collector shall notify the chief of station in all cases coming to his attention within three days after inspection or after the expiration of the three months allowed by law if no action is taken.

(2) The chief of station, upon receipt of the above described notice, and in all cases of failure to meet the conditions imposed in order to comply with the pro-





Dropped-Not 4 Feet, But 6-Not Once, But 6 Times

Section 9 of I. C. C. Shipping Container Specification No. 5 requires that the barrel or drum be filled with water to 98% of its capacity and dropped diagonally on its chime from a height of 4 feet.

The Hackney Steel Drum shown in this picture was filled with water as required, and dropped from a height of 6 feet instead of 4—not once, but 6 times directly upon its chime and 2-inch plug.

Notice how this terrific abuse has distorted the chime. But even after the sixth drop the plug was unhurt and there was not one single sign of leakage.

This clearly shows the true worth of Hackney Steel Drums. Their brazed chime construction and integral reinforcing hoops give them the rigid strength that defies rough usage. Their patented Raised Openings—strongly brazed into the head—make them leakproof.

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HEADLOCK NESTING CANS

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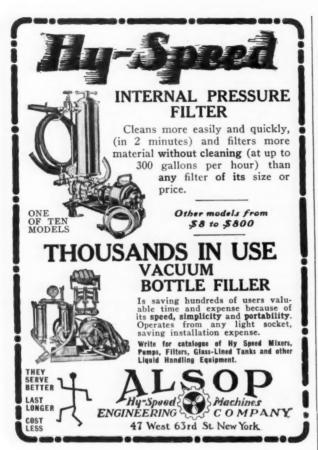
An exceptionally strong Shipping Container
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Will nest for return shipment

Capacity	Diam.	Height	Weight	Price BLACK
5 gals.	121/2"	13"	19 lbs.	\$1.75
10 gals.		26"	27 lbs.	2.25
20 gals.	20 "	26"	42 lbs.	4.50
30 gals.		34"	65 lbs.	6.00
55 gals.	25 "	35"	80 lbs.	7.00

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visions of the Federal Caustic Poison Act coming directly under his supervision, shall transmit to the collector of customs such evidence as he may have at hand tending to indicate the importer's liability and make a recommendation accordingly.

(3) The collector, within three days of the receipt of this recommendation whether favorable or otherwise, shall notify the importer that, the legal period of three months for exportation or relabeling having expired, action will be taken within 30 days to enforce the terms of the bond.

(i) Nonlaboratory Ports:

(1) At ports of entry where there is no station of the Food, Drug and Insecticide Administration, the collector or deputy, on the day when the first notice of expected shipment of containers is received, either by invoice or entry, shall notify the chief of station in whose territory the port is located.

(2) On the day of receipt of such notice the chief of station shall mail to the collector appropriate notice, if no sample is desired. This notice serves as an equivalent to stamping the invoices at station ports with the legend "No sample desired, Food, Drug and Insecticide Administration, U. S. Department of Agriculture, per (Initials of inspecting officer)."

(3) If samples are desired, the chief of station shall immediately notify the collector.

(4) The collector at once shall forward samples, ac-

companied by description of shipment.

(5) When samples are desired from each shipment of containers, the chief of station shall furnish to collector and deputies at ports within the station's territory a list of such containers indicating the size of saple necessary. Samples should then be sent promptly on arrival of containers without awaiting special request.

(6) In all other particulars the procedure shall be the same at non-laboratory ports as at laboratory ports, except that the time consumed in delivery of notices by mail shall be allowed for.

(j) The chief of station shall be deemed a customs

officer in enforcing import regulations.

Regulation XI: The Federal Caustic Poison Act shall be enforced by the Food, Drug and Insecticide Administration, Department of Agriculture.

The Rio Tinto pyrites mines in the province of Huelva, Spain, are producing some 7,000 tons of ore daily, 5,000 of which are shipped, 1,000 smelted and 1,000 bleached for later conversion into metallic copper, according to Consul H. Playter, Seville.



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I have been with a large woolen mill for twenty years as superintendent and general manager, and have sold a good part of its output. I am a University graduate in chemistry, 44 years old, and would like to make a selling connection, with a chemical house. I am a man of character and ability. Will consider only such offers as show possibilities of handsome returns. Correspondence invited. Box 762, CHEMICAL MARKETS.

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SALESMEN with following among glycerin consumers wanted. An interesting proposition will be presented to the proper men. Advertiser just commencing operations in this field. Reply fully stating experience in confidence. Box 763, CHEMICAL MARKETS.

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WANTED: Thoroughly experienced plant executive for production of aniline azo dyes and intermediates on a large scale. Permanent connection with opportunity for development. Submit qualifications as well as previous experience, as well as salary wanted. All replies treated in absolute confidence. BOX 729, CHEMICAL MARKETS.

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WANTED—CHEMICAL MARKETS, Vol. 19. No. 4, 8, 10, 12, 16, 18, 20, 22, 24; 25, 28, 30, 32, 1926 issues. Library of Congress, Washington, D. C.

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Local Market Conditions

CHICAGO

General business conditions in the Chicago district are good and much the same is the case in the chemical business proper. Interest of the trade centers in the movement of alcohol, stearic acid and various gums. There is of course the usual seasonal interest in the volume of contracts over 1928 and this has served to lessen the interest in spot transactions as a result of which there have not been any price changes of importance. Collections are fair.

BOSTON

Conditions in the chemical industry in New England are described as fair for this season of the year. In most cases competition is keen for what business there is in sight, this being particularly true of those materials which find usage in the textile trade. There have been no important price changes in this territory during the period under review and all are particularly interested in the annual contract business which is now being consummated for heavy chemi-There is no outstanding item of interest from the angle of movement. Collections are good.

DETROIT

Based on the appearance of the new Ford car on the market business has been on the upward turn since and for the whole month of December can easily be described as good. This condition has naturally reflected itself in the chemical market. There have not been any important changes in chemicals either as to price or movement, with interest centered on 1928 contract business. Collections are very good.

KANSAS CITY

Business in the middle-West and South-West is slowing down somewhat as is customary in anticipation of the holidays and inventory. The weather with one or two brief exceptions, has remained mild and while alcohol has been moving quite freely and steadily the demand for glycerin has not been so active. Contract buyers seem to be giving reasonable consideration to new entries for 1928. Collections are only fair.

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Local Market Conditions

ST. LOUIS

Fair conditions prevail throughout the chemical industry in the St. Louis territory. Spot business is of course, tapering off due to the proximity of the inventory period. There have been no important price changes in the past several weeks nor has there been any outstanding movement as the entire trade is concentrating on the execution of 1928 contracts.

NEWARK

The year is closing in fairly good shape in the Northern New Jersey district and a great many industries feel that the first two or three months of 1928 are going to show an improvement. Prices of dry colors are more stable than they have been for many months and the volume of business being put through at present is larger than for the corresponding period last year. The leather business is quiet at the moment but in better shape than during December 1926. A number of failures are noted in the textile industry and this particular industry seems to have moved backward during the past month. Business in the paint and varnish group remains quite light and there are no signs of an immediate spurt in conditions, though the trade is looking to better conditions after the turn of the year.

CLEVELAND

Business in the Cleveland district is picking up somewhat and fill-in orders are coming in in fairly good shape. There seems to be a tendency among the paint and varnish manufacturers to contract ahead on raw materials for next year. The linseed oil market shows little change in activity or interest. Buyers are watching the market and marking time. Rosin has been a little firmer of late and considerable business for the first three months of next year has been booked. Inasmuch as the business in Cleveland depends to a certain extent on the steel industry, conditions in this industry seem much better than they were. Business in general is picking up and considerable tonnage has been placed within the last week or ten days and prices have advanced somewhat. Every one seems very optimistic over 1928.

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Calco Chemical Co., Bound Brook, N. J Cover 1 Carbide & Carbon Chemicals Corp., New York 897
Carpenter Container Co., Brooklyn, N. Y 940
Chase Bag Co., Cleveland, O
Chemische Fabrik Naarden N. V. Bussum, Hol-
land
Church & Dwight Co., New York City
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	Lewis Co., John D., Providence, R. I	937
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	Radio Corporation of America, New York City Robins & Co., G. S., St. Louis, Mo Roessler & Hasslacher Chemical Co., New York	943
	Rogers & MacClellan, Massachusetts Rolls Chemical Co., Buffalo, N. Y.	942
	Seaboard Chemical Co., New York	
	Selden Co., The, Pittsburgh, Pa.	909
	Solvay Sales Corporation, New York City	911
	Southern Agricultural Chemical Corp., Atlanta, Ga	923
١	Starquez, P., Antwerp, Belgium	928 946
١		
I	Tar Acid Refining Co., New York City Tartar Chemical Works, New York City	667 929
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I	City	939
	Turner & Co., Joseph, New York	931
	U. S. Industrial Chemical Co., New York City	905
	Victor Chemical Works, Chicago, Ill	773 868
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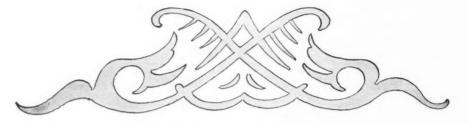
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